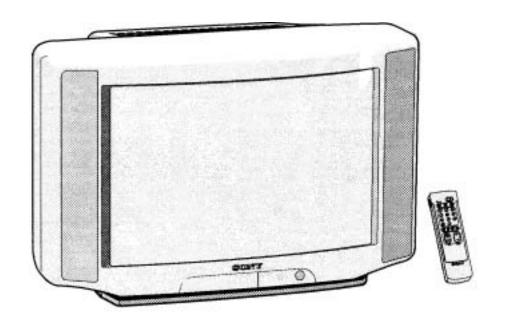
# SERVICE MANUAL

# BE-3B CHASSIS

**MODEL MODEL** COMMANDER CHASSIS NO. COMMANDER DEST. CHASSIS NO. KV-C2173B RM-833 French SCC-G85R-A KV-C2171K RM-833 OIRT SCC-G86J-A KV-C2171D RM-833 **AEP** SCC-G77T-A KV-X2101D RM-833 AEP SCC-G86S-A KV-C2173E RM-833 Spanish SCC-G82R-A







ITEM MODEL	Television System	Channel Coverage	Colour System
French	B/G/H	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 Italy: A-H, H1, H2	PAL NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 Italy: A-H, H1, H2 D/K VHF: R01-R12, UHF: R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 Italy: A-H, H1, H2	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 Italy: A-H, H1, H2 D/K VHF: R01-R12, UHF: R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
Russian	B/G/H, D/K	B/G/H VHF: E2-E12, UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 Italy: A-H, H1, H2 D/K VHF: R01-R12, UHF: R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	French	AEP	Spanish	OIRT	Russian
Power Consumption	75W	75W	75W	75W	75W

## **Specifications**

Picture tube

Hi-Black Trinitron

Approx. 54 cm (21 inches)

(Approx. 51 cm picture measured diagonally)

100° -deflection

## **Input/Output Terminals**

#### [REAR]

🔁 1 21-pin Euro connector (CENELEC standard)

Inputs for audio and video signals

inputs for RGB

Outputs of TV video and audio signals

€2/- 21-pin Euro connector

- inputs for audio and video signals
- inputs for S video
- Outputs for audio and video signals (selectable)

## [FRONT]

€ 3 Video input - phono jack

● 3 Audio inputs - phono jacks

→ 3 S video input - 4-pin DIN

Ω Headphone jack - Stereo minijack

Sound output

2x20W (Music power)

Approx.

652 x 433 x 488 mm

Weight

Approx. 26 kg

Supplied accessories

RM-833 Remote Commander (1)

IEC designation R6 battery (1)

Other features

Fastext

TOPtext (KV-C2173B/C2171D/C2171K/C2171KR only)

Nicam (KV-C2173B/C2173E only)

## [RM-833]

Remote control system infrared control

Power requirements

1.5V dc

1 battery IEC designation

R6 (size AA)

**Dimentions** 

Approx. 65 x 222 x 21 mm (w/h/d)

Weight

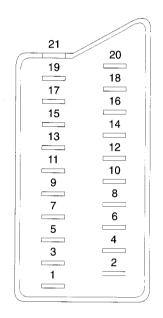
Approx. 157g (Not including battery)

Design and specifications are subject to change without notice.

Model name	KV-C2173B	KV-C2171D	KV-C2173E	KV-C2171K	KV-C2171KR
Item					
Pal Comb	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF
NICAM	ON	OFF	ON	OFF	OFF
RGB Priority	ON	ON	ON	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON
Norm I	OFF	OFF	OFF	OFF	OFF
Norm D/K	OFF	ON	OFF	ON	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Language Preset	French	German	Spanish	OIRT	Russian

21 pin connector ( + 1/ + 2/+ 2)

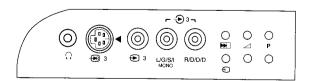




Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	0	0	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	0	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal:0.7V±3dB. 75ohms, positive
12	0	0	Open	
13	0	0	Ground(red)	
14	0	0	Ground (blanking)	
15	0	_	Red input	0.7V±3dB, 75ohms, positive
	_	0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	0	_	Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
		0	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
21	0		Common ground (plug, shield)	

○ Connected ● Not Connected (open) \*at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm-, positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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## **CAUTION**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK 
ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### **ATTENTION**

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LETUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

#### ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

## ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

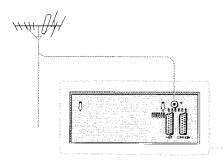
#### **About Battery Life**

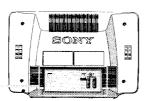
Under normal operation, a battery will last up to half a year

Always remember to dispose of used battery in an environmental

## **Connecting the Aerial**

Connect the aerial to the TF socket at the rear of the TV. (cable not supplied)





The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## Choosing a Language

#### (See inside of front cover and back cover)

Depress ① 🖾 on the TV.

The TV turns on. If the standby indicator **B** on the TV is lit, press 

on the Remote Commander.

2 Press MENU @ on the Remote Commander.
The SELECT LANGUAGE screen appears.

MEN

Press one of the colour buttons on the Remote Commander to select a language (Press the white button To display other language alternatives). The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.

SELECT LANGUAGE ► ENGLISH
• DEUTSCH
• FRANÇAIS

MALIANO
 MORE

SELECT COLIBUTTON

Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button 10 then press the white button 10 to redisplay the SELECT LANGUAGE screen.

## **Tuning in to Channels**

You can tune in up to 100 channels to programme positions either automatically or manually.

auto tuning: A single button press allows all receivable

channels to be tuned. Use if you are unfamiliar with the channel numbers of

Use if you are familiar with the channel manual tuning:

numbers of stations.

Choose the more appropriate way for you.

#### Tuning in to Channels Automatically

There are two possibilities for auto tuning:

A. On the TV: hold down 🖭 🖪 on the front of the TV for

Note: The button Est for Automatic Presetting of channels is protected to prevent accidental usage. Use the tip of a pencil to press it.

B. On the Remote Commander; as follows

#### Press MENU @.

? Press the white button .

4 Hold down the red button for 2 seconds,

Note: Press the green button @ to cancel

#### Tuning in to Channels Manually

Press MENU 0.

The MENU screen appears.



? Press the white button to select PRESET.

The PRESET screen appears.

PRESET ► AUTO TUNING • MANUAL TUNING • PROGR. EXCHANGE EDIT PROGR. NAME
 FINE TUNE

3 Press the green button 10 to select MANUAL TUNING.
The MANUAL TUNING screen appears.

MANUAL TUNING 01 B/G C21 -SONY • SKIP OFF • OK ENTER PROGR. NO.

USE NO BUTTONS OF HANGE BY MENU +

## 4 Press the number buttons of or MENU +/- of to select a programme position.

If you use the number buttons ①, enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

## 5 Press the green button @.

Note: Use MENU +/- 
to select TV system.
You can alternatively select input sources which may be assigned to programme positions.
The display changes as follows:

MANUALTUNING:

OF BYG C21 SORTY

• OK

SELECT SYSTEM/INPUT CHANGE BY MENU +/

YC2 → AV3 → YC

programme positions. Select system/initial programme positions. The display changes as follows:  $B/G \Rightarrow D/K \Rightarrow AV1 \Rightarrow RGB \Rightarrow AV2 \Rightarrow YC2 \Rightarrow AV3 \Rightarrow YC3 \Rightarrow YC3 \Rightarrow YC4 \Rightarrow AV5 \Rightarrow YC5 \Rightarrow AV5 \Rightarrow AV5$ 

## 6 Pess the green button ♥.

**Note:** If a video input source is selected in step 5, this is now stored. Refer to step 4 to tune other programme positions.

MANUAC TUNING.

OI B/G C21 -SONY

• C/S

• OK

ENTER CHANNEL NO.
USE NO. BUTTONS OR
SEARCH BY MENU +/-

## 7 If you have selected B/G in step 5, press the red button to select C (regular channel) or S (cable channel).

## Press the number buttons ② or MENU+/- ③ to select the channel number.

If you use the number buttons **(3)**, enter a double-digit number, (e.g., for channel 23, first press 2, then 3)

## Press the green button • to store.

Note: If you want to preset other channels, repeat steps 4 to 9.

# Press MENU • twice to return to the normal screen. Note: You can skip unused programme positions when selecting

programmes with the PROGR +/- buttons .

Press the red button to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

## **Basic TV Operations**

#### Turning the TV on and off

Turning on

Depress ① A on the TV.

# Turning off temporarily Press © @ on the Remote The TV enters standby more front of the TV lights up.

Press () (0) on the Remote Commander.
The TV enters standby mode and the standby indicator (3) on the

#### Turning on again

#### Turning off completely Depress ① A on the TV.

Note: It is recommended to use ① 🔼 to turn off the TV. This could help you save energy.

#### Selecting TV Programmes

Press PROGR +/- 19 or press the number buttons 4.

#### To select a double-digit number

Press -/-- 6, then the number buttons 4

#### Adjusting the Volume

Press - +/- 10.

#### Muting the Sound

Press 🕸 🕦

To resume normal sound, press 🕸 1 again.

#### Displaying the On-screen Indications

Press 

Once to display the on-screen indications.

Press again to make the indications disappear.

#### Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can adjust or select the functions as follows:

Press - +/- 1 to adjust the volume.

Press P +/- © to select programme numbers or to turn the TV on from the standby mode.

Press - I to select the input source.

Press E1 I to preset channels automatically.

## Advanced TV Operations

## **Operating the Menu System**

You can adjust picture and sound, preset channels to programme positions and utilise other convenient features by using the following menu system.

Press:	to:
1 MENU O	enter the MENU screen
2 a colour button •	select an item you want to change (The selected item is marked by a triangle.)
3 MENU +/- ● (MEAN) +	change (or adjust) the contents of the item
4 MENU O	return to the MENU screen
5 MENU 🖸 again	return to the normal screen

**Note:** When selecting menus, the picture becomes darker. If, however, an item in the PICTURE ADJUSTMENT menu is selected, normal level of TV picture is restored to allow the best

Press MENU 7 once or twice whenever you want to return

to the normal screen.

## Adjusting the Picture and Sound

Although picture and sound are adjusted at the factory you can adjust them to suit your own taste.

1 Press MENU @.

The MENU screen appears.

2 Press the red button to select PICTURE or the green button to select SOUND.

? Press the respective colour button @ to select an item.

5 Press MENU 2 twice or wait until the menu displays disappear automatically to return to the normal screen.

#### PICTURE ADJUSTMENT

(First Page)

•	DMODL
•	DH9CH
	1010000
)	IBBBIL
Ċ	RE

Press colour button Effect Red: For Picture O Less - I More Green: For Colour @ Less - + More Yellow: For Brightness Ø Darker Brighter Blue: For Sharpness (1) Softer Sharper White: Next page of PICTURE ADJUSTMENT

 FORMAT NORMAL • ₩ 1000 • BACK

SELECT COL BUTTON CHANGE BY MENU +/-

Press colour button	Effect
Red: For Colour Tone	Normal ⇒ Warm (reddish colour tone) ⇒ Cool (blueish colour tone)
<b>Green:</b> For Format	Normal: Normal setting 16:9 Wide screen effect
Blue: For Hue control \( \sum \sqrt{2} \) (only for NTSC video signals)	Reddish — Greenish
White:	Back to first page of PICTURE ADJUSTMENT

Note: Press →•← ® on the Remote Commander to reset to the factory preset levels for picture and sound.

#### SOUND ADJUSTMENT

(First Page)

SOUND ADJUSTMENT • 4 1000 • 5 1000 • 2 0000 • 🖂 IIIIIII.... SELECT COLIBUTION ADJUST BY MENU +/

Press colour button	Effect
Red: For Volume ∠	Less — More
<b>Green:</b> For Treble <b>§</b>	Less — H More
Yellow: For Bass 2:	Less — t More
Blue: For Balance ⊾⊿	More left – more right
White:	Next page of SOUND ADJUSTMENT

#### SOUND ADJUSTMENT

(Second Page)

SOUND ADJUSTMENT SPACE SOUND OFF LOUDNESS OFF
 STERFO
 RESET BACK SELECT COLUBIUMORI. CHANGE BY MENU -

Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
<b>Green:</b> For Loudness	OFF: normal sound ON: when listening to low volume sound
<b>Yellow:</b> For Stereo/Dual	Stereo ⇒ Mono A (left channel) ⇒ Mono B (right channel) ⇒ Mono
Blue: For Reset	Resets picture and sound to the factory preset levels.
White:	Back to first page of SOUND ADJUSTMENT

Note: Press →•← 3 on the Remote Commander to reset to the factory preset levels for picture and sound.

## **Using Special Features**

With your TV you can utilise special features such as Parental Lock or Sleep Timer.

Press MENU @.

The MENU screen appears



? Press the yellow button @ to select FEATURES.

3 Press the respective colour button  $oldsymbol{\Phi}$  to select an item.

A Press MENU +/- 1 to change.

5 Press MENU © twice or wait until the menu displays disappear automatically to return to the normal screen.

**FEATURES** FEATURES ► SLEEP TIMER OFF
• PARENTAL LOCK OFF
• 1V BUTTON LOCK OFF
• DEMO MODE LANGUAGE SELECT COL BUTTON CHANGE BY MENU +/-

Press colour button Effect Red: For Sleep Timer OFF ⇒ 0:30 ⇒ 1:00 ⇒ (Automatic switch off 1:30 ⇒ 2:00 (hours) function) After the selected time the TV set switches itself automatically into standby mode

Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)

For Demo Mode

ON: The TV-channel you are watching is now blocked. In this way you can prevent undesirable broadcasts from appearing on the screen Yellow

For TV Button Lock OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)

ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.

OFF: Normal setting

White: For Language The SELECT LANGUAGE screen appears.

## **Advanced Presetting Functions**

#### Exchanging Programme Positions

You can exchange the programme positions to a preferred order (example: exchange programme 09 (channel C21) with programme 15 (channel C24)).

Press MENU @.

The MENU screen appears



7 Press the white button 10.

The PRESET screen appears.

? Press the yellow button .

The PROGR. EXCHANGE SCREEN appears.

PROGR. EXCHANGE 01 B/G C21 - SONY • NEXT CHANNEL PREVIOUS CHANNEL SELECT COL BUTTON

Press the white button @ repeatedly until the desired 4 programme number (09) appears.

5 Press the red or the green button @ repeatedly until the desired channel number (C24) appears.

Press the white button @ to store.

Now the exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.

MENU

7 Press MENU 6 twice to return to the normal screen.

#### **Editing Programme Names**

You can edit the programme names up to five letters.

Press MENU @ The MENU screen appears.

2 Press the white button **①**. The PRESET screen appears.

The Press the blue button (a).

The EDIT PROGR. NAME screen appears.

The first character flashes.

EDIT PROGR. NAME 01 B/G C21 - SONY • NEXT LETTER CHANGE BY MENU +/- The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.

#### Fine Tuning

You can adjust the receiving conditions by the FINE TUNE function

MENJ

Press MENU 2

The MENU screen appears.

? Press the white button . The PRESET screen appears.

3 Press the white button @ again.
The FINE TUNE screen appears.

FINE TUNE STORE EXITAMATOR ADJUST BY MENULA.

A Press MENU +/- 1 to adjust the receiving condition.

#### Press the red button To to store the adjustment, or press The green button for not to store.

Now the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Note: If the FINE TUNE screen disappears automatically before you press the red button . the fine tuned condition is not stored. Repeat steps 1 to 5.

#### Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

Press C @ on the Remote Commander.

For cable channels press C to twice. The indication "C" (or "S" for cable channels) appears on the screen.

 Enter a double digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).

The channel appears.

However, the channel is not stored.

#### **Teletext Operation**

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

#### Basic Teletext Operation Switching Teletext on and off

Select the channel which carries the teletext service you wish to view.

2 Press 

to display Teletext.

If no teletext signal is broadcast, the indication P100 is displayed on a black



## 3 Input three digits for the page number using the number buttons 0.

The numbers are displayed on the screen and the requested page appears in a few seconds

Note: If you make a mistake, type in any three digits, then reenter the correct page number

Press 🗆 3 to return to the TV mode.

- the TV mode, then repeat steps 1 to 3.
- . If the signal of a TV channel is weak, teletext errors may occur.

#### Advanced Teletext Operation Using Fastext

With Fastext you can access pages with one button press. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons 6 on the Remote Commander

Press the corresponding colour button 6 on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds

#### Requesting the Index page

Press (1) (7). The Index page appears.

#### Accessing the next or preceding page

page appears on the screen.

#### Superimposing the teletext display on the TV picture

Press @ 0 once if you are in text mode or press @ 0 twice if in TV mode.

To return to the normal teletext display press twice.



Preventing a teletext page from being updated or changed Press (HOLD) . The HOLD symbol (19) appears on the screen and the selected subpage is held until you press 🖹 0 to cancel

#### Enlarging the teletext display

Press 3 once to enlarge the upper half. Press twice to

enlarge the lower half. Press again to restore the normal display.





Revealing concealed information (e.g. answers to a quiz) Press (7) (REVEAL) . The information is revealed, Press (7) again to conceal the information.

#### Watching TV while waiting for a requested page to be displayed

Request a new teletext page.

#### ↑ Press Ø (TEXT CL) Ø

The TV programme is displayed and the symbol (a) is displayed at the top of the page.

Note: When the requested page is available the page number is displayed at the top of the screen.

#### These (a) to view the page.

#### To cancel the request

Display the teletext page, then press @ . The request is now cancelled. Press O 3 to resume TV mode.

#### Using the Favourite Page system

You can store up to four of your favourite teletext pages per programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

#### Storing the Favourite Pages

- Select the page you would like to store using the number buttons 4
- Press → 
   twice.

The colour prompts at the bottom of the screen flash.

#### The Press any of the colour buttons to on the Remote Ocmmander to store the selected page.

The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

#### Displaying the Favourite pages

Press ↔ 🚯.

#### 1 Press the colour button (3 corresponding to the colour prompt onto which the desired page is stored.

The page is requested. (It may take a few seconds to be

Note: Step 1 must be taken before every favourite page selection otherwise the normal Fastext facility operates.

#### Using the Time Function in the TV mode

Press @ @ to request the time. Press again to cancel the

Note: This function is available only when teletext is broadcast.

0

## **Connecting Other Equipment**

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
–তী1 <b>M</b> (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
⊕ 2/ 2 2 <b>□</b> (AV2/YC2)	Audio/video and S-video signal	Audio/video signal from selected source
-€3/-€3 <b>G ⊞</b> (AV3)	Audio/video signal	No outputs
-Ð3/-Ð33 <b>6</b> ∎ (YC3)	Audio/S-video signal	No outputs

To watch a video input picture, press - 2 until the desired video input appears.

To return to the normal TV picture, press - 2 repeatedly or press 🔾 🚳.

If you have a decoder, connect it to → 1 M

#### Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal III of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 20.

#### S video input (Y/C input) [1] [5].

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.

Separating the Y and C signals prevents them from interfering with each other and therefore improves the picture quality (especially luminance). This TV is equipped with 2 video input terminals through which these signals can be input directly.

### Checking and Selecting the Input and Output Sources Using the Menu

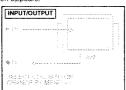
You can display a menu screen to see which input and output source are selected. You can also change the selecting using this

#### Checking the Input and Output Sources

Press MENU @.

The MENU screen appears

2 Press the blue button to select INPUT/OUTPUT.
The INPUT/OUTPUT screen appears.



#### Selecting an Input Signal

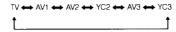
Press the red button to select INPUT. Press MENU +/- to select the desired input source.

You can select among the following sources:

 $TV \leftrightarrow AV1 \leftrightarrow RGB \leftrightarrow AV2 \leftrightarrow YC2 \leftrightarrow AV3 \leftrightarrow YC3$ 

#### Selecting an Output Signal

The ⊕2/- 2 connector unouts the source input from the other connectors. Press the green button To to select OUTPUT. Press MENU +/- 
 to select the desired output source. You can select among the following sources:



Note: Press To twice or wait until the menu display disappears automatically to return to the normal screen.

## Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VCRs or video disc players.

#### Tuning the Remote Comander to the equipment

Set the VTR 1/2/3 MDP selector @ according to the

equipment you want to control: VTR 1: Beta or VCR

VTR 2: 8mm VCR VTR 3: VHS VCR MDP: Video Disc Player

#### 1 Use the buttons 4 to operate the additional equipment.

- . If your video equipment is furnished with a COMMAND MODE selector; set this selector to the same position as the VTR 1/2/3 MCP selector on the TV Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander will not
- · When you use the (record) button, make sure to press this button and the one to the right of it simultaneously.

## Using Headphones

You can utilise headphones. Connect them to the headphone jack , then the sound from the speakers goes off. Note: You can't control the sound adjustment except for volume.

#### For your Information

#### Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

#### No picture (screen is dark), no sound

- Plug the TV in.
- Press ① ▲ on the TV. (If the standby indicator 🖪 is lit, press O 3 or any number button 3 on the Remote Commander.)
- · Check if the selected video source is on. . Turn the TV off for three or four seconds and then turn
- it on again using ① A.

#### Poor or no picture (screen is dark), but good sound

 Press MENU To enter the MENU screen, and press the red button 0, then adjust 0 and \$.

#### Good picture but no sound

- Press ∠ + ⑥.
- If is displayed on the screen, press is 0.

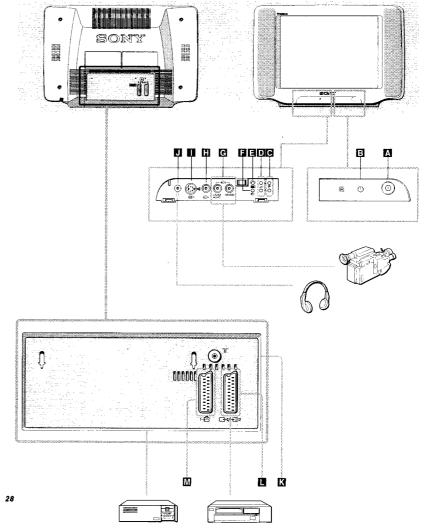
#### No colour for colour programmes

 Press MENU 1 to enter the MENU screen, and press the red button (1), then adjust (3).

#### Remote Commander does not funcion

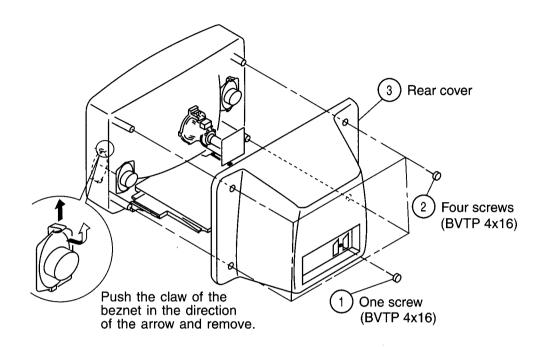
. Replace the battery.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

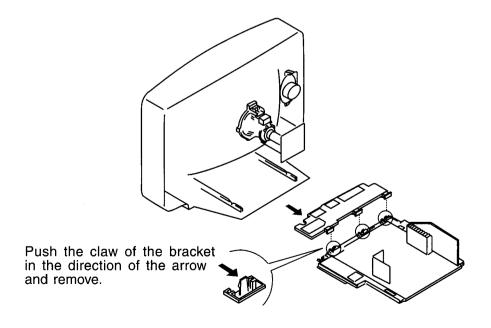


# SECTION 2 DISASSEMBLY

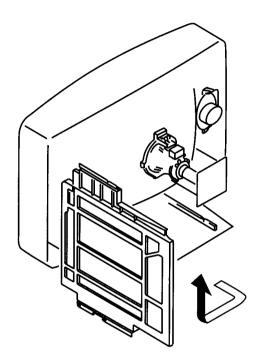
## 2-1. REAR COVER AND SPEAKER REMOVAL



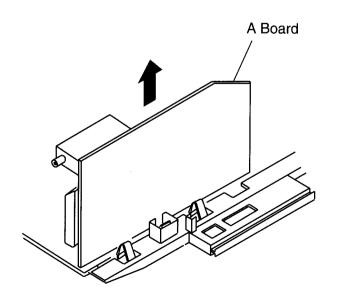
## 2-2. CHASSIS ASSY AND H BRACKET REMOVAL



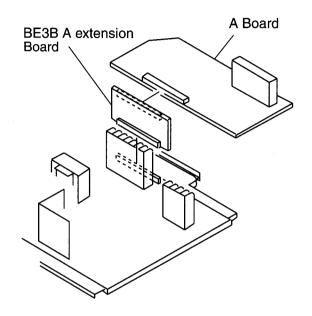
## 2-3. SERVICE POSITION



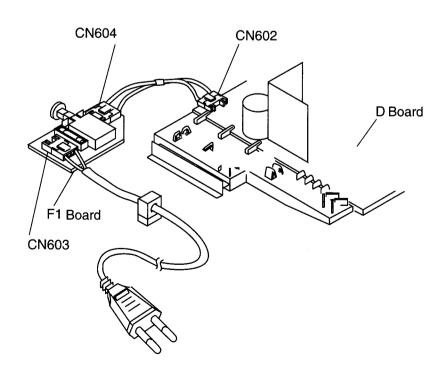
## 2-4. A BOARD REMOVAL



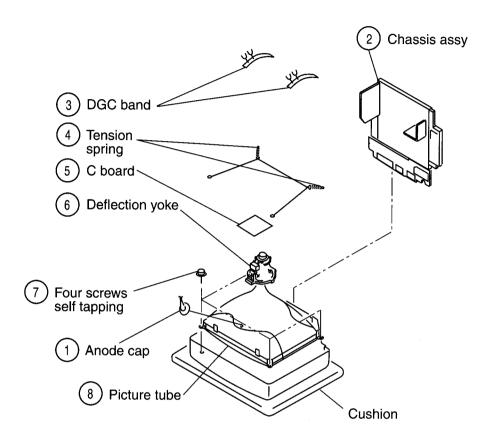
## 2-5. EXTENSION BOARD



## 2-6. WIRE DRESSING



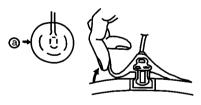
## 2-7. PICTURE TUBE REMOVAL



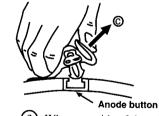
## REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

#### \* REMOVING PROCEDURES.



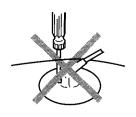
- 1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)
- - Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

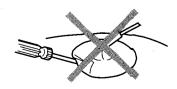


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

## • HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!
  - A metal fitting called as shatter-hook terminal is built into the rubber.
- 3 Don't turn the foot of rubber over hardly!
  The shatter-hook terminal will stick out or damage the rubber.





# SECTION 3 SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings:

Contrast	 80%	(or remote control
	norma	d)
☼ Brightness	 50%	

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Colour bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

### Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

- Input the white signal with the pattern generator.
   CONTRAST BRIGHTNESS normal
- 2. Set the pattern generator raster signal to red.
- 3. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 3-3)
- 4. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
- 5. Switch the raster signal to blue, then to green and verify the condition.
- 6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

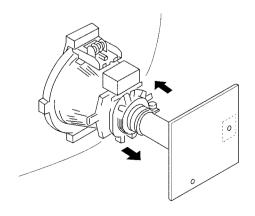


Fig. 3-1



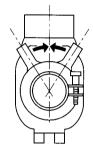
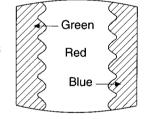


Fig. 3-3



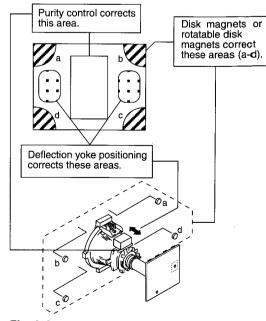


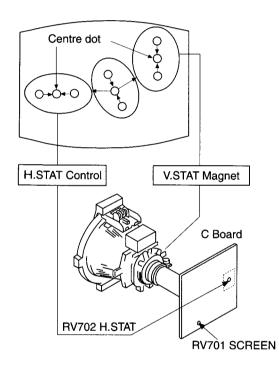
Fig. 3-4

### 3-2. CONVERGENCE

## Preparation:

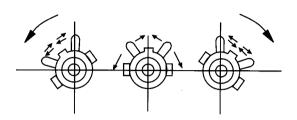
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

## (1) Horizontal and vertical static convergence

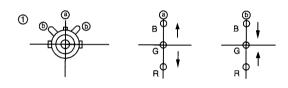


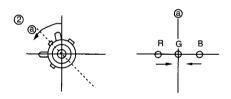
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
  (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

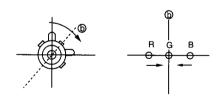
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

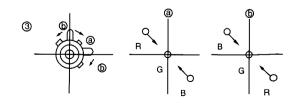


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

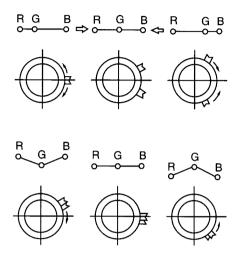




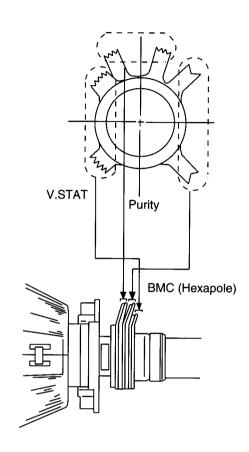




• Operation of BMC (Hexapole) Magnet



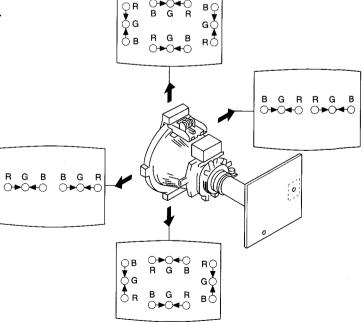
The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).



## (2) Dynamic convergence adjustment.

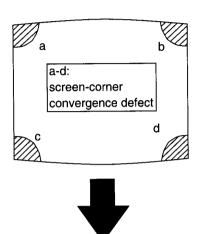
## **Preparation:**

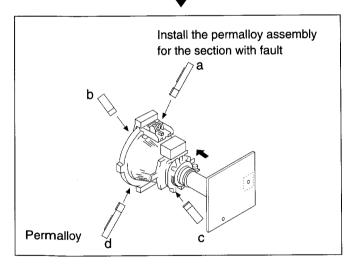
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Re-install the deflection yoke spacer.



### (3) Screen corner convergence.

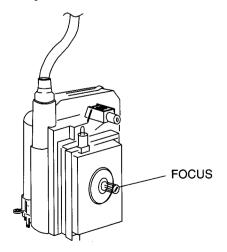
If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.





#### 3-3. FOCUS

Adjust the focus to optimize the screen.



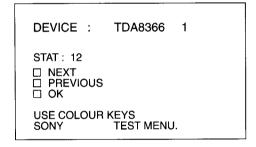
## 3-4. WHITE BALANCE

## Screen G2 Setting

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
- While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

## White balance adjustment

- 1. Receive an all-white signal.
- 2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
- 3. Select TDA8366 1 on menu.



- 4. Press the White button on the Remote Commander to enter into the device Menu.
- 5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 32.
- Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
- 7. Press the Red button to select HWB BLUE, adjust with the + and menu buttons so that the white balance becomes optimum.
- 8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

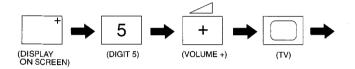
# SECTION 4 CIRCUIT ADJUSTMENTS

## 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

## HOW TO ENTER INTO SERVICE MODE

- 1. Turn on the main power switch of the set and enter into standby mode.
- 2. Press the following sequence of buttons on the Remote Commander.



"TT" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.

DEVICE NAME  STAT: xxxx  NEXT PREVIOUS OK  USE COLOUR KEYS		
☐ NEXT ☐ PREVIOUS ☐ OK USE COLOUR KEYS	DEVICE NAME	
☐ PREVIOUS ☐ OK USE COLOUR KEYS	STAT: xxxx	
	☐ PREVIOUS	
	USE COLOUR KEYS SONY TEST MENU.	

4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).

DEVICE NAME
00 ADJUSTMENT: xxx
☐ NEXT ☐ PREVIOUS
SELECT COL.BUTTON CHANGE BY MENU +/-

- 5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the and buttons to change the data to comply with each standard.
- 6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup of TDA8366, TDA6612 and SAA7283.

TDA8366 1         INIT VALUE         TDA8366 2         INIT VALUE           Hue         31         Interlace         00           H Shift         Adj         Sync Mode         00           H Size         Adj         Col Dec         00           Pin Amp         Adj         Vert Div         00           Corn Pin         Adj         Vid ID         00           Tilt         Adj         EHT Track         01	UE
H Shift         Adj         Sync Mode         00           H Size         Adj         Col Dec         00           Pin Amp         Adj         Vert Div         00           Corn Pin         Adj         Vid ID         00	
H Size         Adj         Col Dec         00           Pin Amp         Adj         Vert Div         00           Corn Pin         Adj         Vid ID         00	
Pin Amp Adj Vert Div 00  Corn Pin Adj Vid ID 00	
Corn Pin Adj Vid ID 00	
710) 110.2	
Tilt Adj EHT Track 01	
V.Linear Adj En V Grd 00	
V.Size Adj Serv Blk 00	
S.Corr Adj OVP Mode 00	
V.Cent Adj Aspect R 00	
HWB Red Adj Start Freq 00	
HWB Green Adj Y/C Input 00	
HWB Blue Adj PAL/NTSC 00	
Peaking 8 Xtal PLL 00	
Bright 32 Y Delay 07	
Colour 32 RGB Blk 00	
Picture 37 Noise Cor 00	
AGC Set 00 Fast Blk 01	
Srce Sel 1 00 AFC Wind 00	
Srce Sel 2 00 IF Sensty 00	
Time Con         03         Mod Std         00	
Xtal Ind 03 Vid Mute 01	
FF Freq 02	

TDA6612	INIT VALUE	TDA6612	INIT VALUE
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	œ
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	ω
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
Pll Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

## 4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off
	<u> </u>

30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	To Activate Rotation Coil Adjustment
39	'Check Rotation Coil Adjustment
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter ( Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ-Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

**Note**: For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

#### SUB BRIGHTNESS ADJUSTMENT

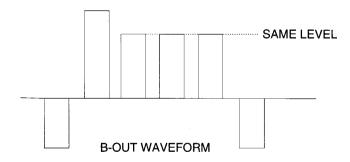
- 1. Input a Phillips pattern.
- 2. Enter into service mode and press 23.
- 3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

#### SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a Black Background.
- 2. Enter into service mode and press 01 to have PIC max followed by 21.
- 3. Connect oscilloscope to pin ① of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

## SUB COLOUR ADJUSTMENT

- 1. Input a PAL colour bar signal.
- 2. Connect an oscilloscope to pin (3) of CN703 (B OUT) on the C Board.
- 3. Enter into service mode and press 22.
- 4. Adjust data so that the right sides of the waveform are set to the same level.



#### STEREO SEPARATION ADJUSTMENT

- 1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Enter into service mode and select the "Test Menu" to be TDA6612.
- 3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
- 4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

#### I.F. COIL ADJUSTMENT

- Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
- 2. Receive a channel so that the I.C. is selected for negative modulation.
- 3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

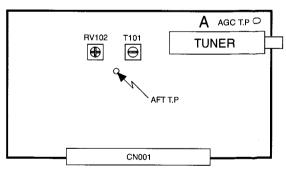
# L, BAND 1 ADJUSTMENT (RV102) - L, STANDARD FOR FRENCH MODELS.

- Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
- 2. Receive a channel so that the I.C. is selected for positive modulation and system L band 1.
- 3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

**Note**: Only adjust RV102 after T101 has been correctly adjusted.

#### AGC ADJUSTMENT

- 1. Receive an off- air signal.
- 2. Enter the service mode, ("Test" "Test") and 35.
- 3. Adjust the data so that there is no snow or cross modulation visible on the screen.
- 4. Change the receiving off-air channel, and confirm the above status.



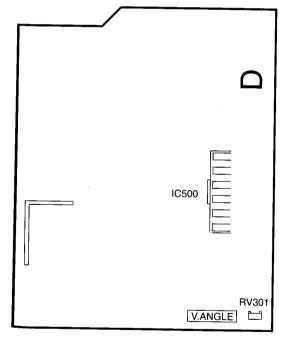
- A Board component side -

## DEFLECTION SYSTEM ADJUSTMENT

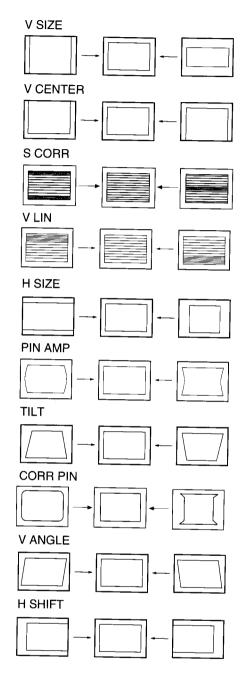
- 1. Enter into service mode.
- 2. Select and adjust each item in order to obtain the optimum image.

Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09	V SIZE	ADJ.
OA	S CORR	ADJ.
OB	V CENTER	ADJ.

Note: V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)



- D Board Component Side -



## 4-3. BE-3B SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3B chassis is triggered in 1 of 2 ways: -1: Bus busy or 2: Device failiure to respond to IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1., on fatal errors are reported with this method.

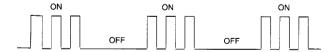
If a fatal error is found the set will simply stay in whichever state it was when the error occured, but if a non fatal error occurs the set will try to continue operation.

Table 1

Device	LED Error Count	Fatal Error
NVM	29	√
Teletext	10	
Jungle	11	V
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

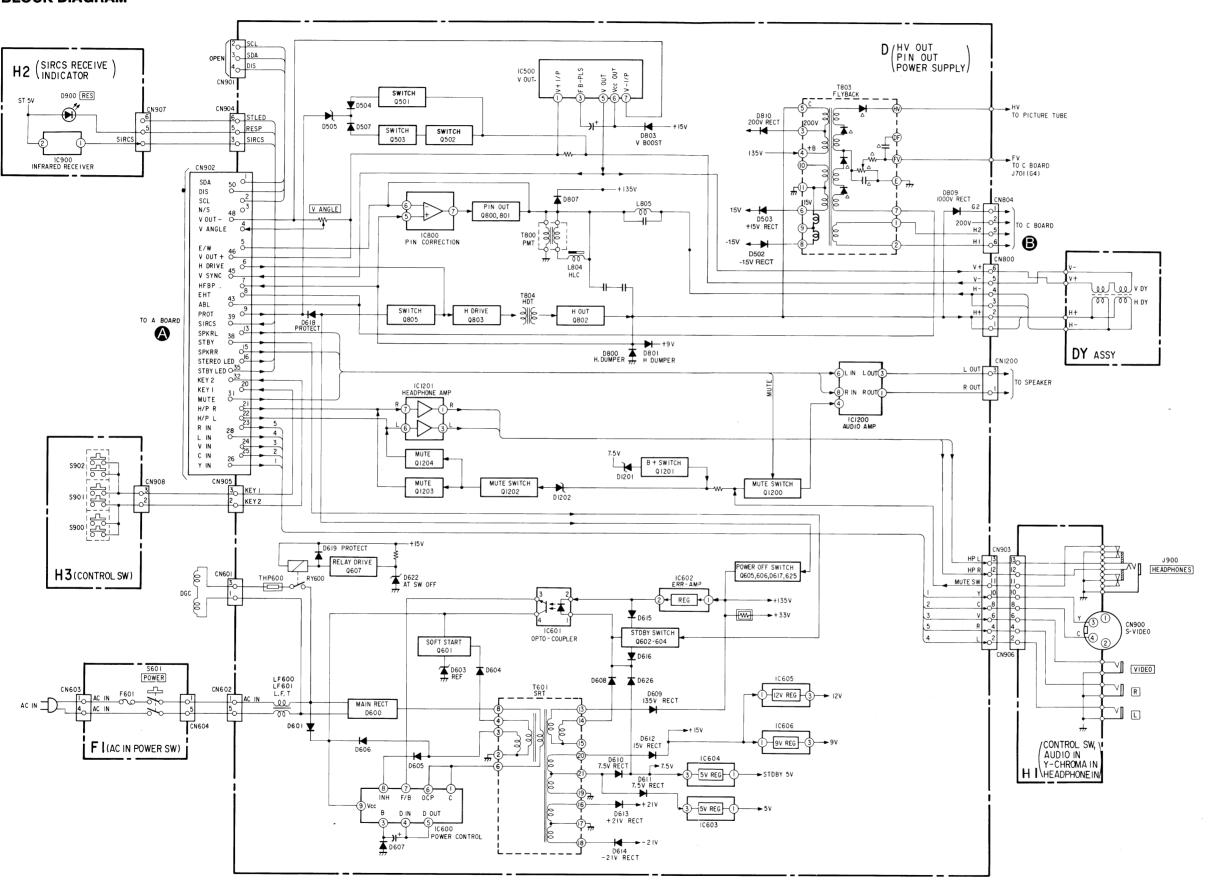
Flash Timing Example : e.g. error number 3.

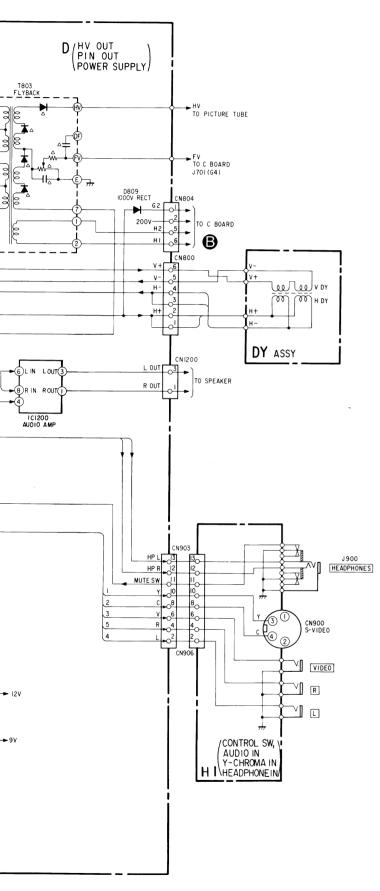


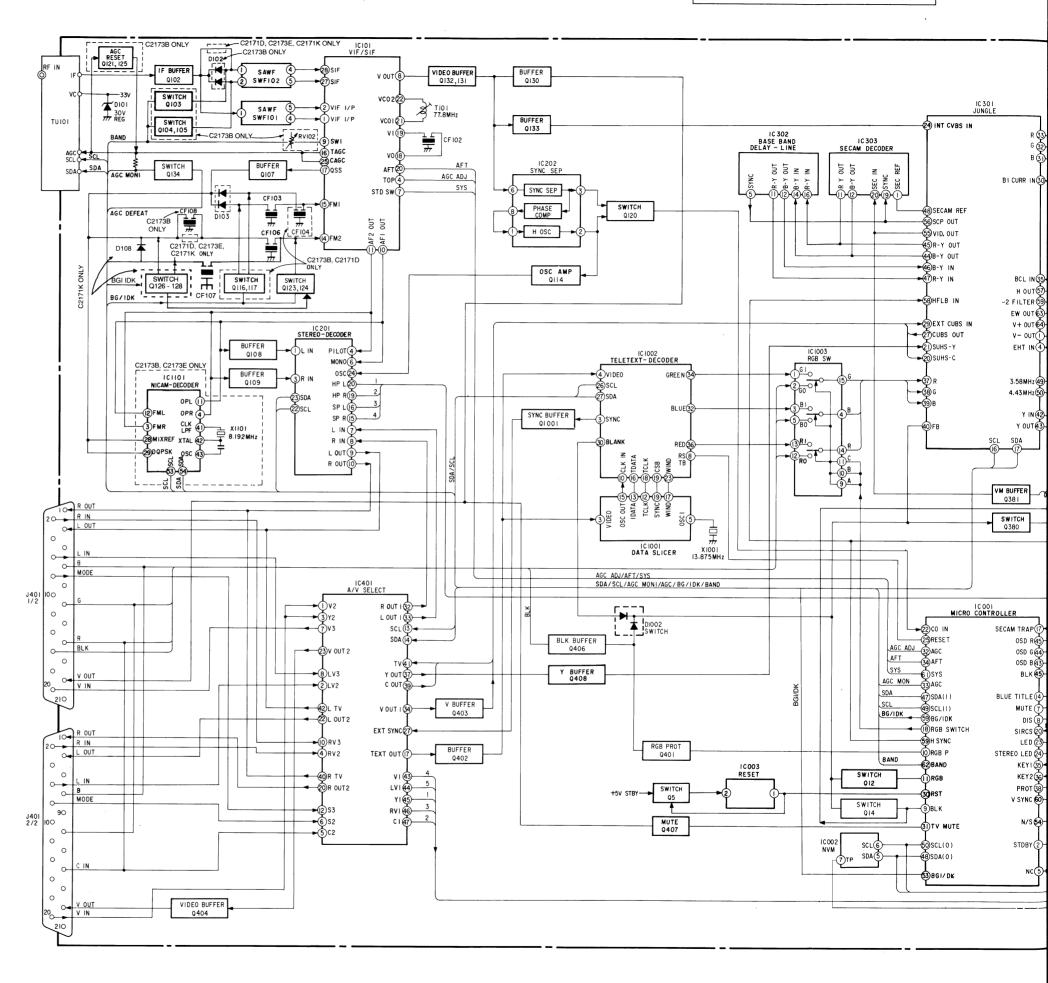


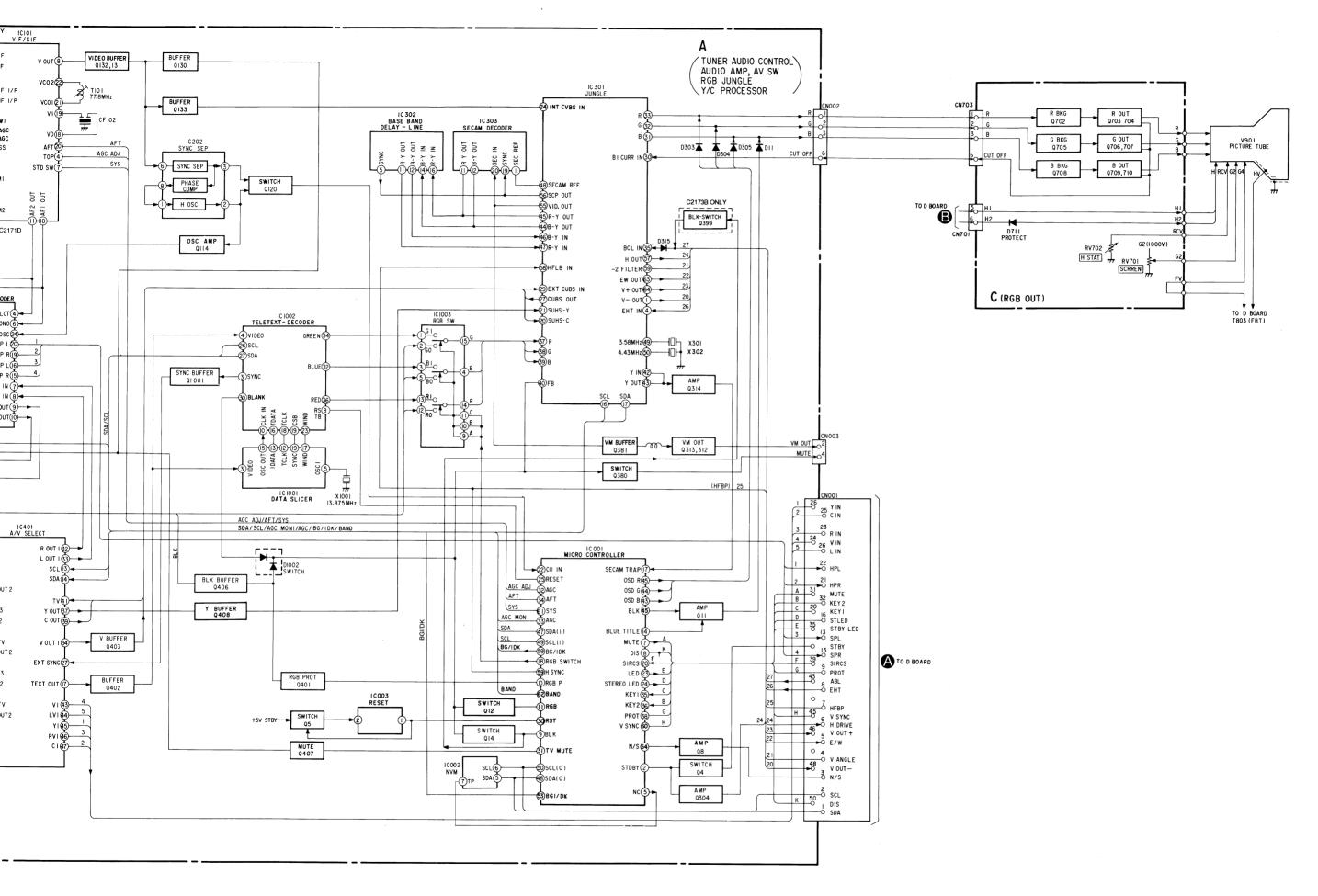
# SECTION 5 DIAGRAMS

#### 5-1. BLOCK DIAGRAM

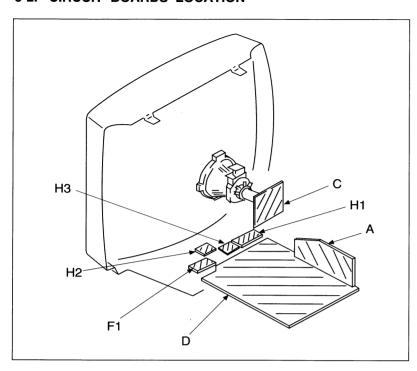








## 5-2. CIRCUIT BOARDS LOCATION



#### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

 All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

• All resistors are in ohms.

k = 1000 , M = 1000K

• Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power <sup>1/4</sup> W

: nonflammable resistor.
: internal component.

• : panel designation, or adjustment for repair.

• All variable and adjustable resistors have characteristic curve

B, unless otherwise noted.

: earth - ground.

• # : earth - chassis.

: no mounted.

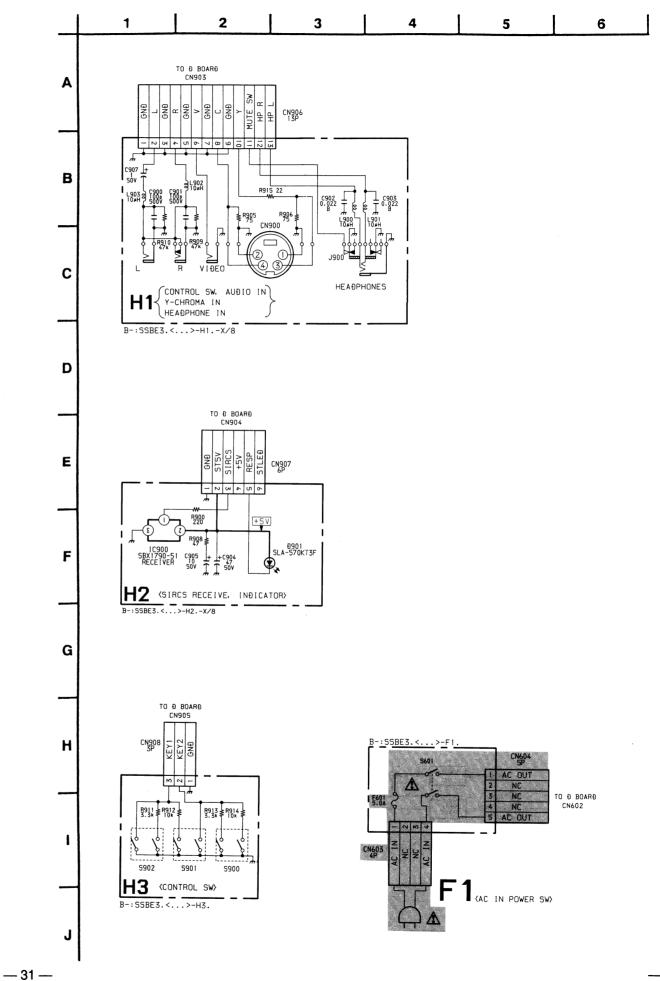
Note: Les composants identifies par une trame et une marque \hat{\text{\text{N}}} sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

## Reference information

Reference inform	nauon	
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: X	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)



H1 [ CON

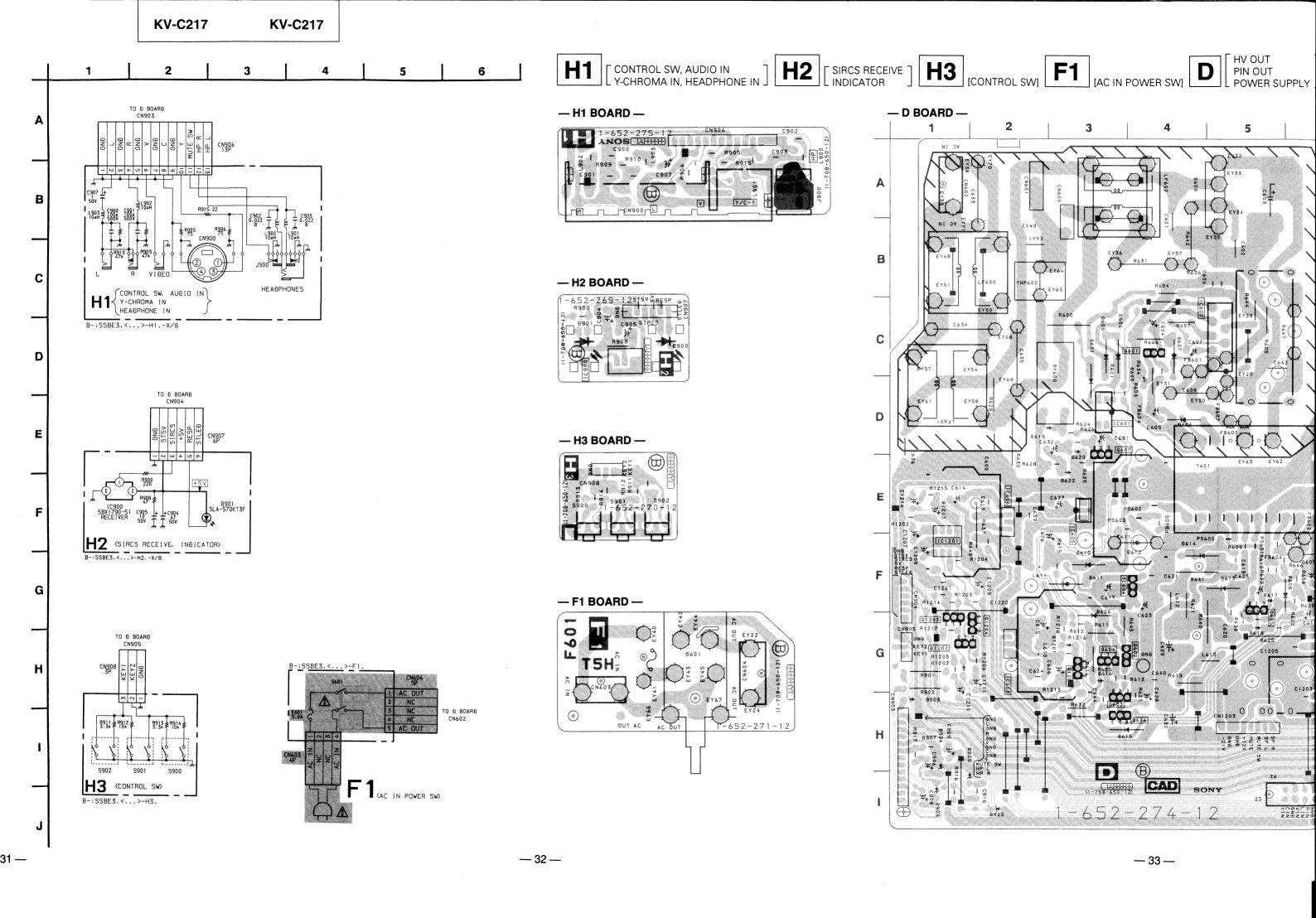
- H1 BOARD

- H2 BOARD

- H3 BOARD

- F1 BOARD

F601



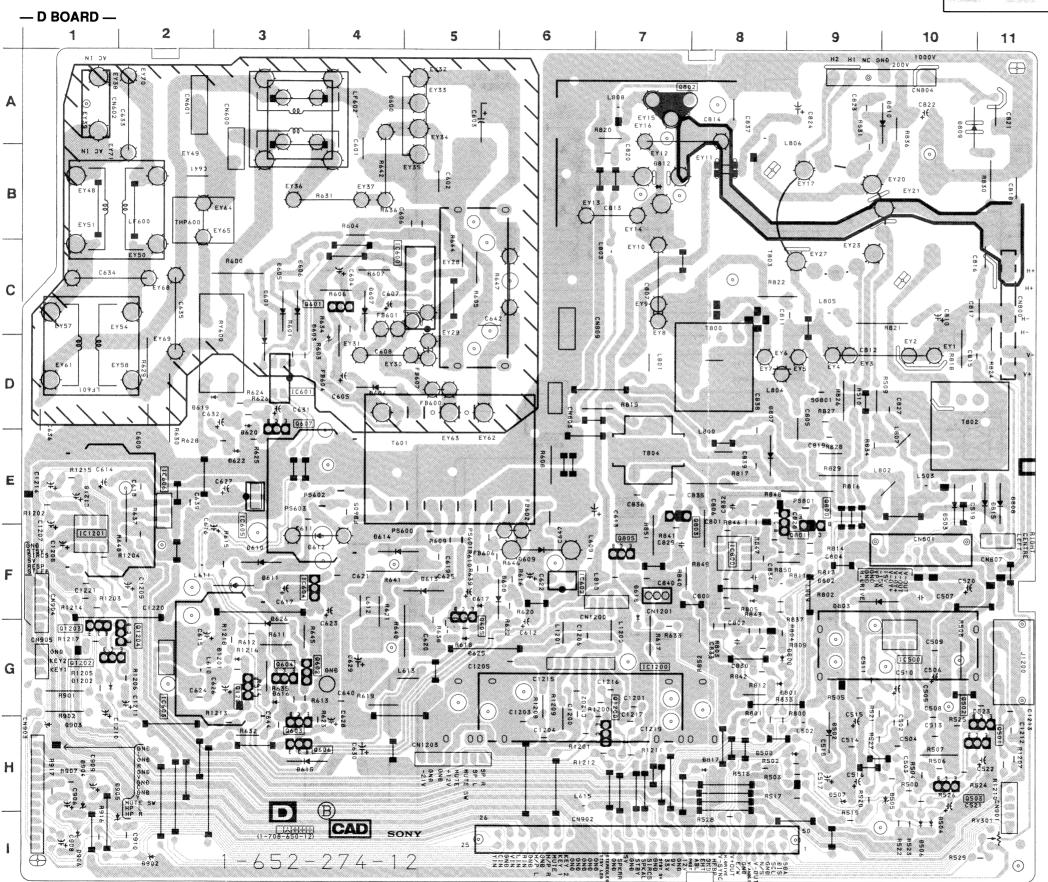


## NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



H2 SIRCS RECEIVE ] H3 [CONTROL SW]

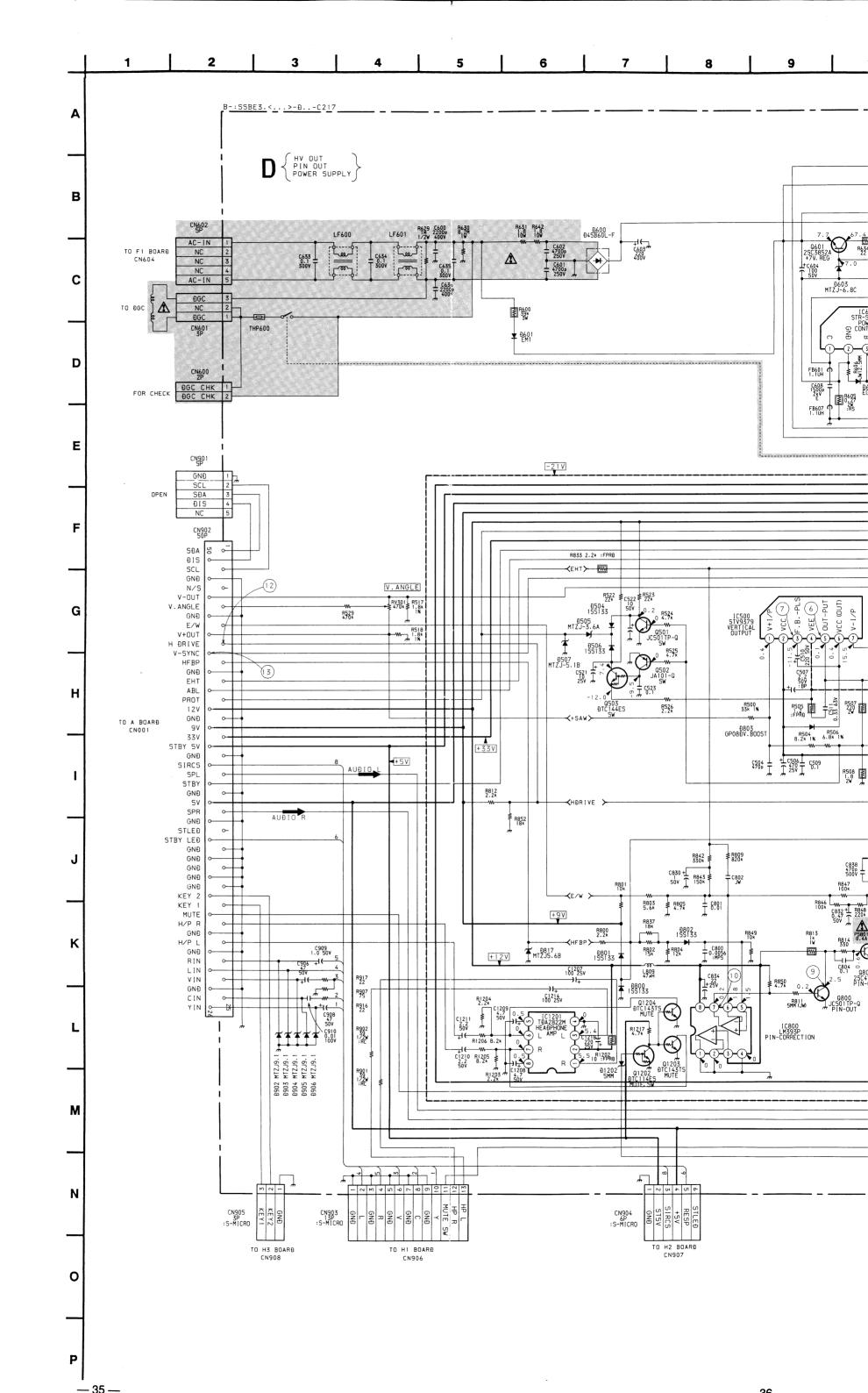


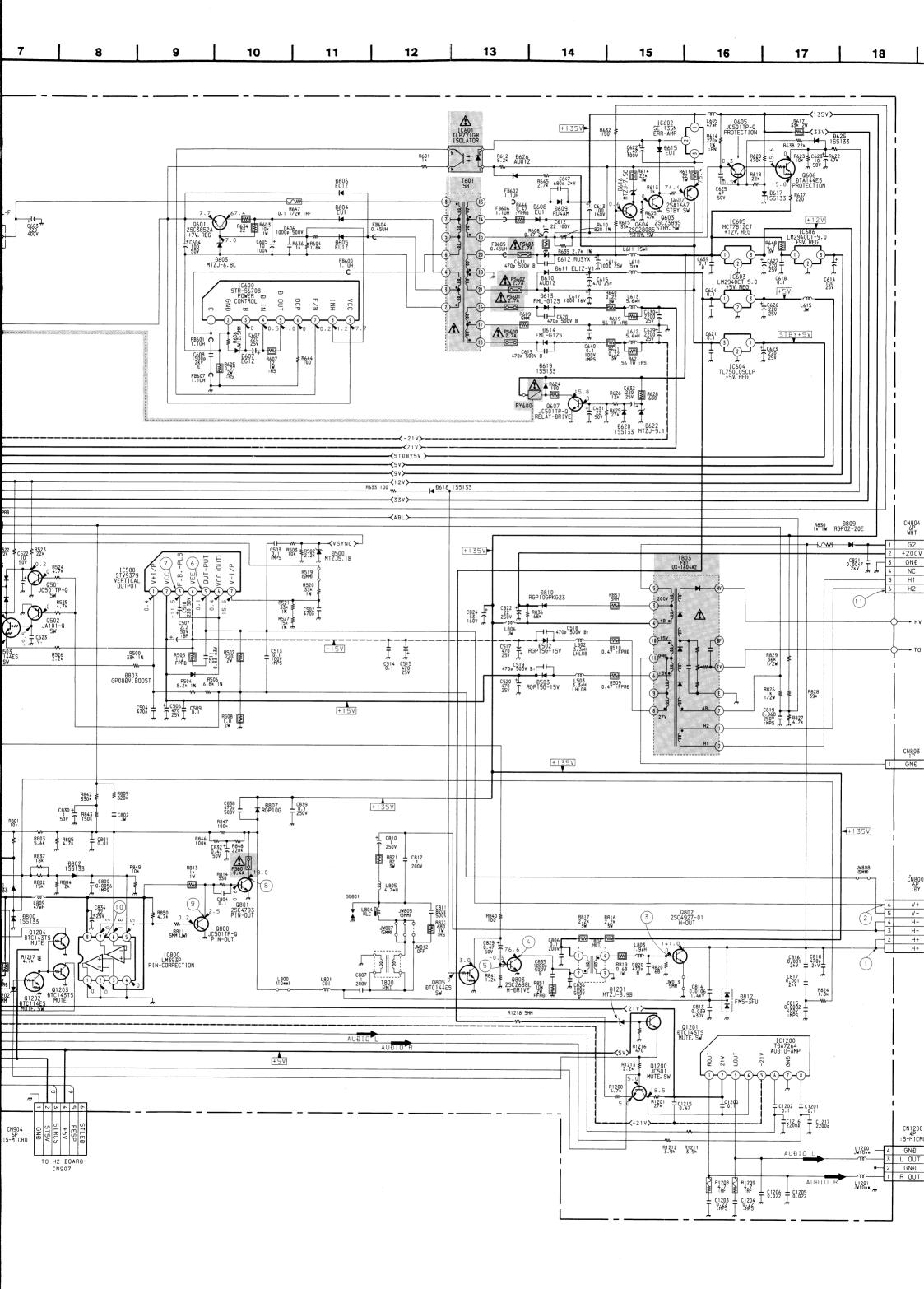
HV OUT PIN OUT POWER SUPPLY

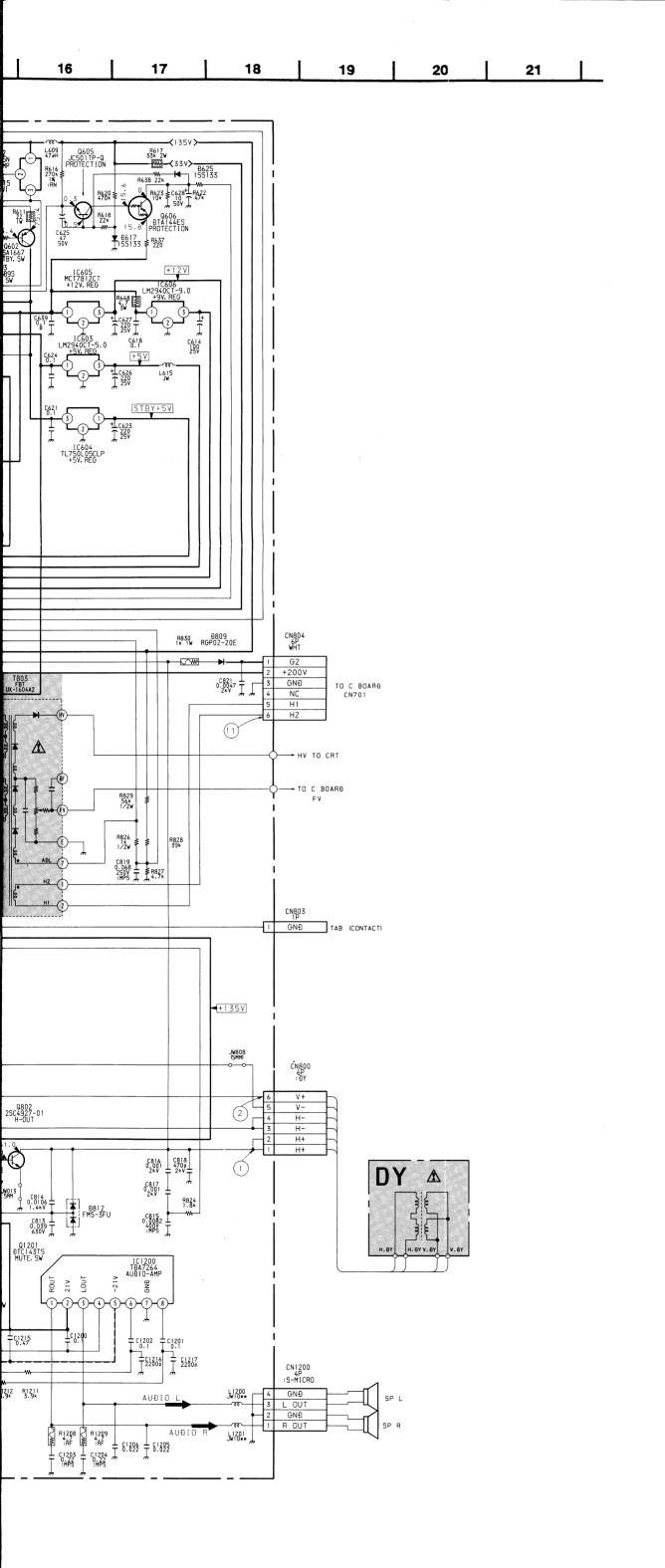
[AC IN POWER SW]

## D BOARD

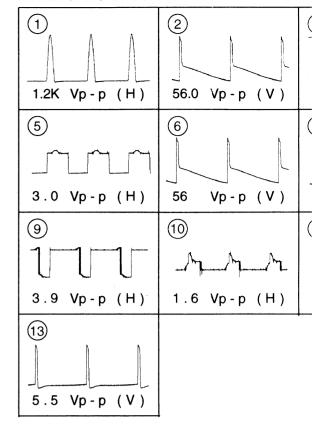
D BUAF			
IC		D600	A-4
IC500 IC600 IC601 IC602 IC603 IC604 IC605 IC606 IC800 IC1200 IC1201	G-10 C-5 D-3 F-6 G-2 F-4 E-3 E-2 F-8 G-7	D600 D601 D603 D604 D605 D606 D607 D608 D609 D610 D611 D6112	C-3 D-4 C-3 C-3 C-4 F-6 F-3 F-3 F-4 F-5
TRANS	ISTOR	D614 D615	F-4 H-3
Q501 Q502 Q503 Q601 Q602 Q603 Q604 Q605 Q606 Q607 Q800 Q801 Q802 Q803 Q805 Q1200 Q1201 Q1202 Q1203 Q1204	H-11 G-11 H-11 C-4 G-4 H-3 G-5 H-4 D-3 E-9 F-9 A-7 F-8 F-7 H-7 G-3 G-1 G-1	D616 D617 D618 D619 D620 D622 D625 D626 D800 D801 D802 D803 D807 D809 D810 D812 D817 D902 D903 D904 D905	F-5 F-7 D-2 E-3 G-9 G-9 F-9 D-8 A-10 B-7 H-1 H-1 H-1
DIC	DE	D906 D1201	I-1 G-3
D500 D502 D503 D504	H-8 H-9 E-10	VARI	ABLE STOR
D504 D505 D506 D507	I-10 H-10 I-10 H-9	RV301	I-11



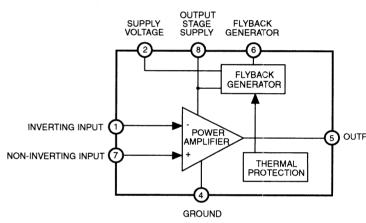




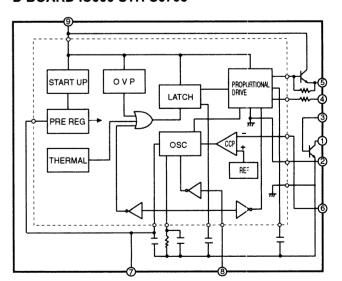
#### WAVEFORMS D BOARD



## D BOARD IC500 STV9379



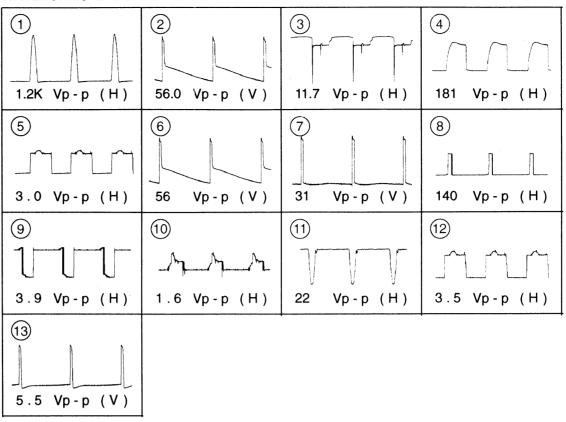
## D BOARD IC600 STR-S6708



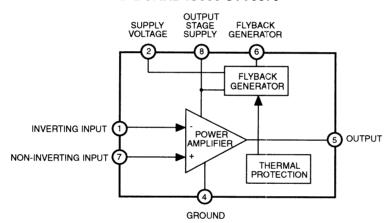
<del>--- 37 ---</del>

\_\_ 38 \_

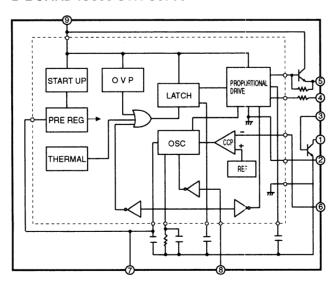
## WAVEFORMS D BOARD



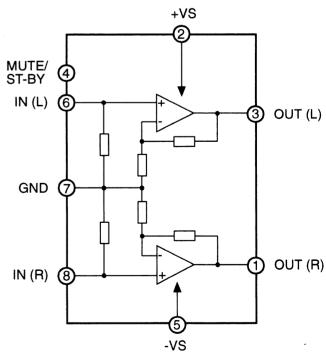
## D BOARD IC500 STV9379

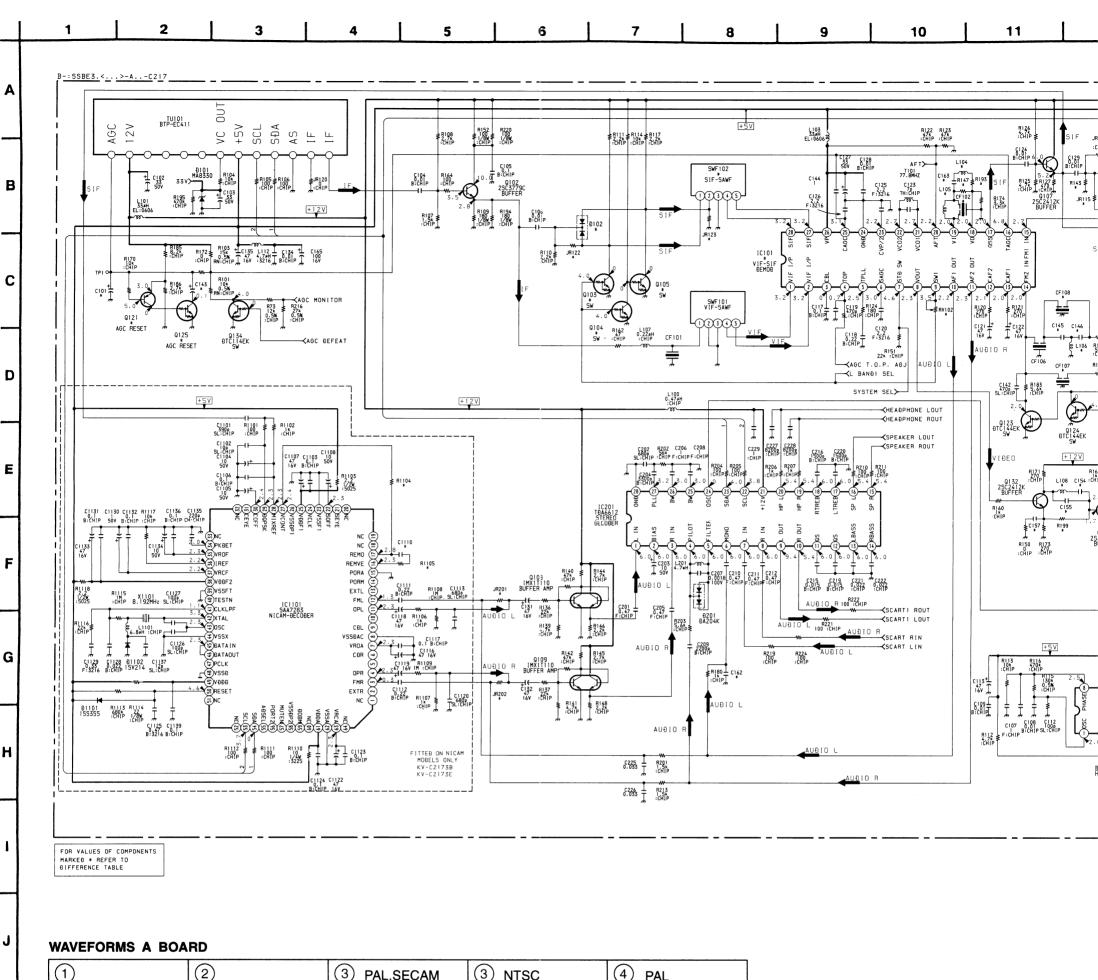


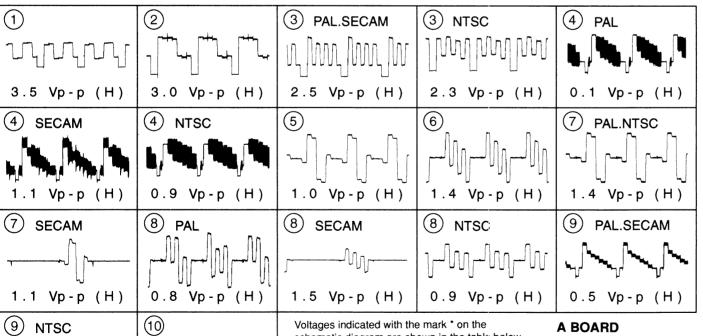
## D BOARD IC600 STR-S6708



## D BOARD IC1200 TDA7264



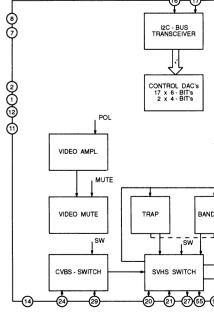




schematic diagram are shown in the table below.

IC	Pin	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	17	4.0	4.0	4.0	0
	35	3.6	2.5	3.5	3.5
	44	1.5	3.1	1.5	1.5
	45	1.5	3.0	1.5	1.5
	48	1.7	4.4	1.6	1.7
	49	1.4	1.4	2.0	1.4
	50	2.0	2.0	1.4	2.0
	63	3.4	2.5	2.2	2.5
IC303	1	1.7	4.4	1.6	1.7
	11	1.5	3.0	1.5	1.5
	12	1.5	3.1	1.5	1.5

# A BOARD IC301 TDA8366



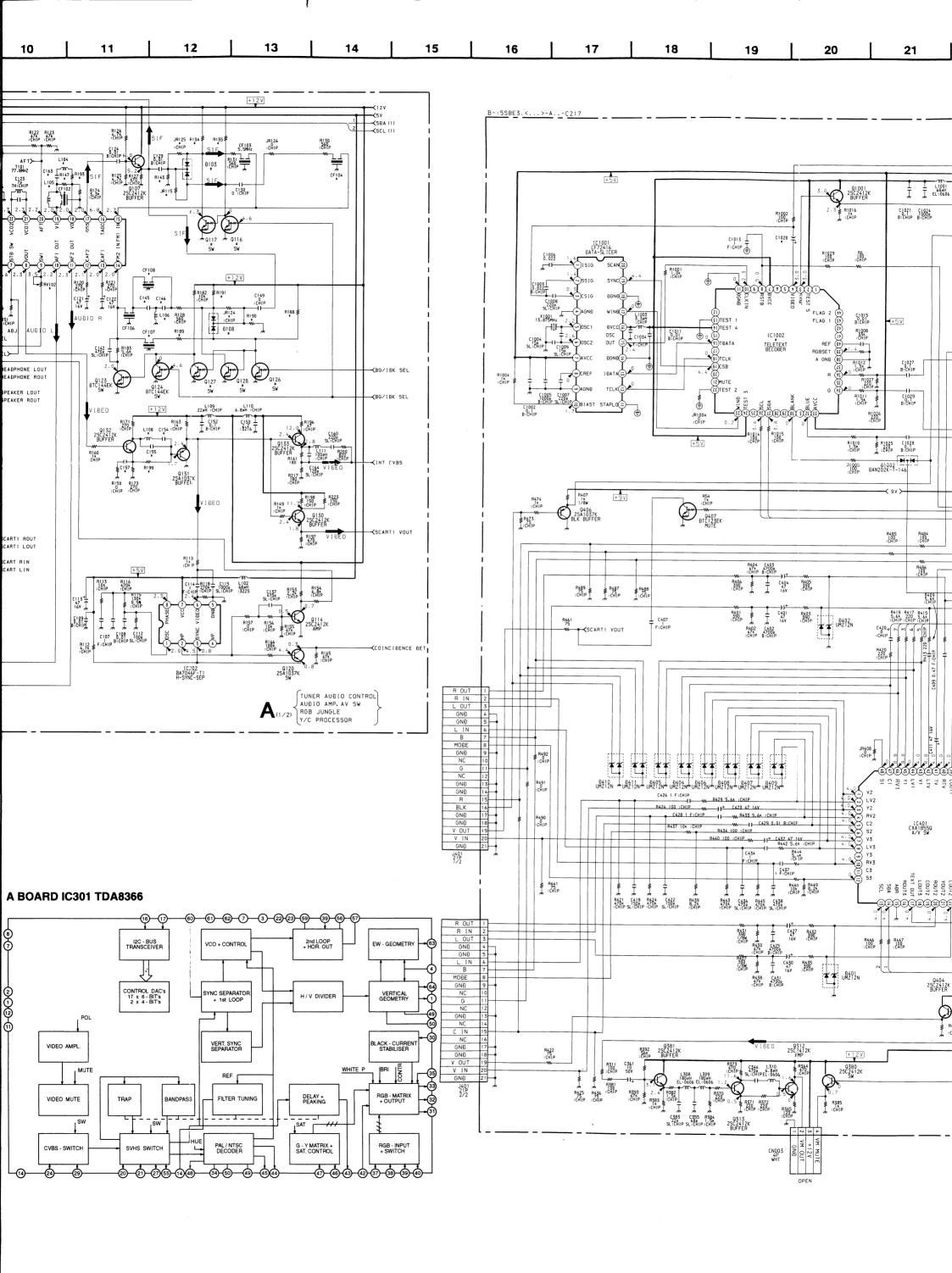
M

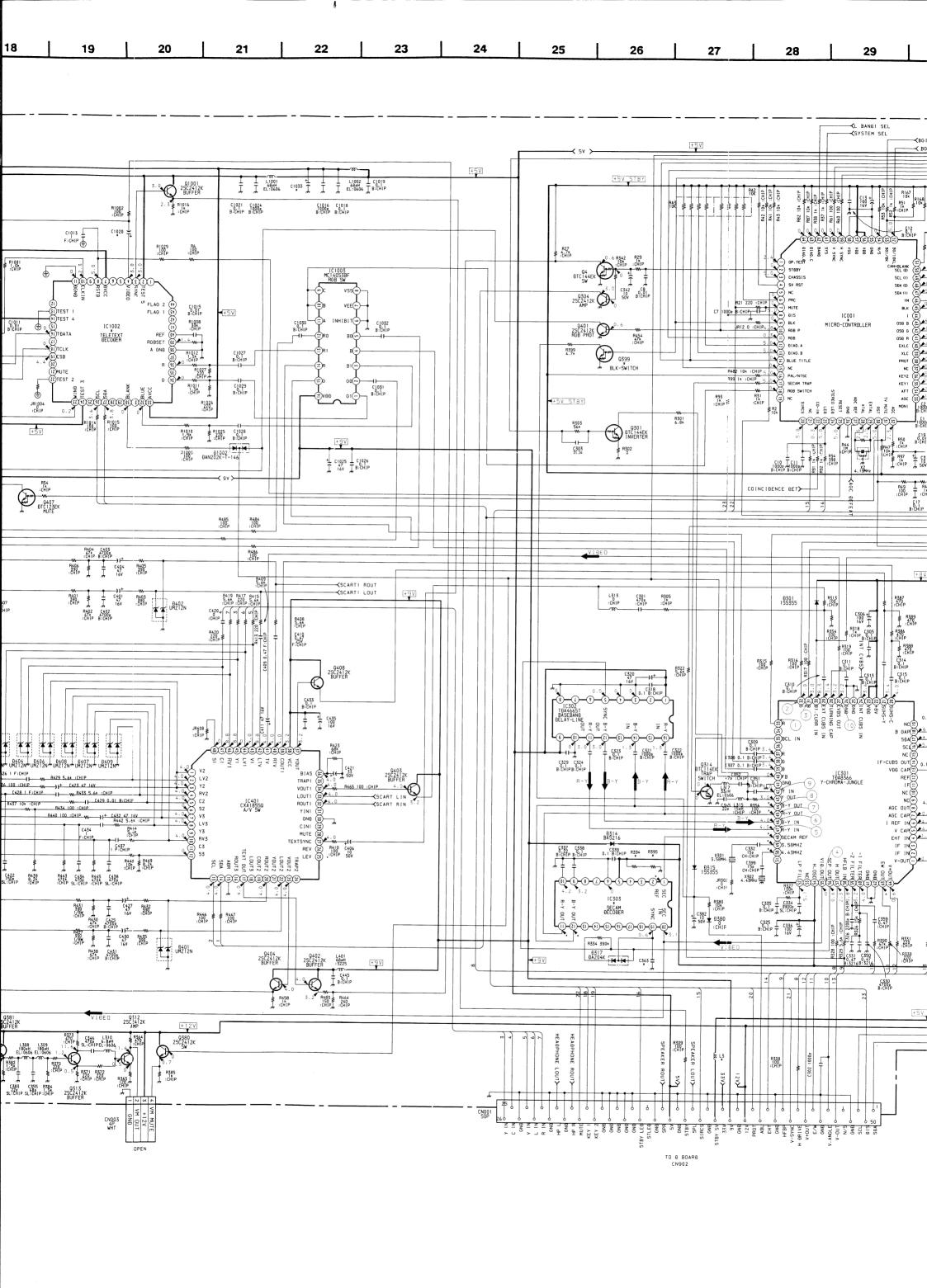
N

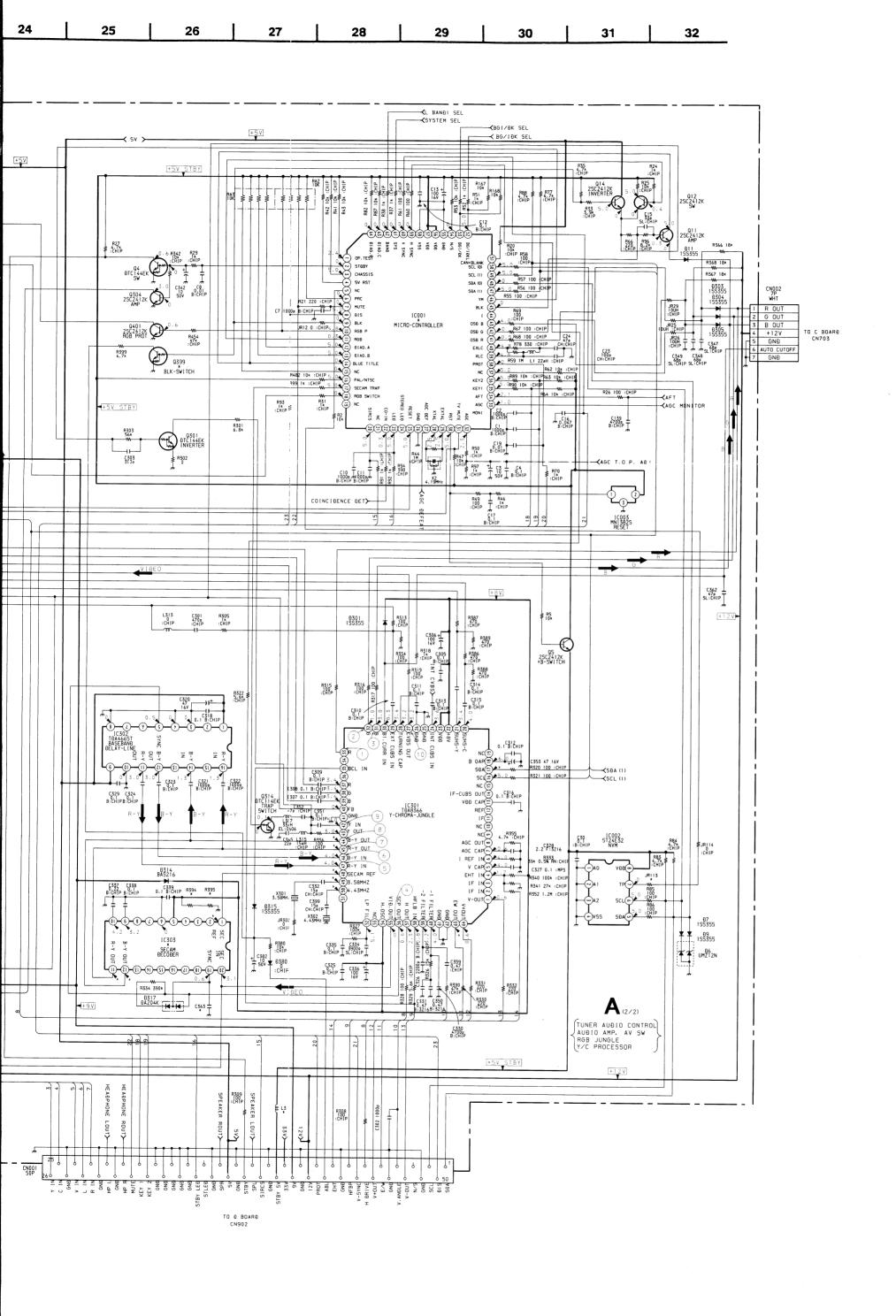
0.4 Vp-p (H)

0

1.0 Vp-p (H)

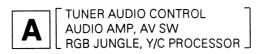




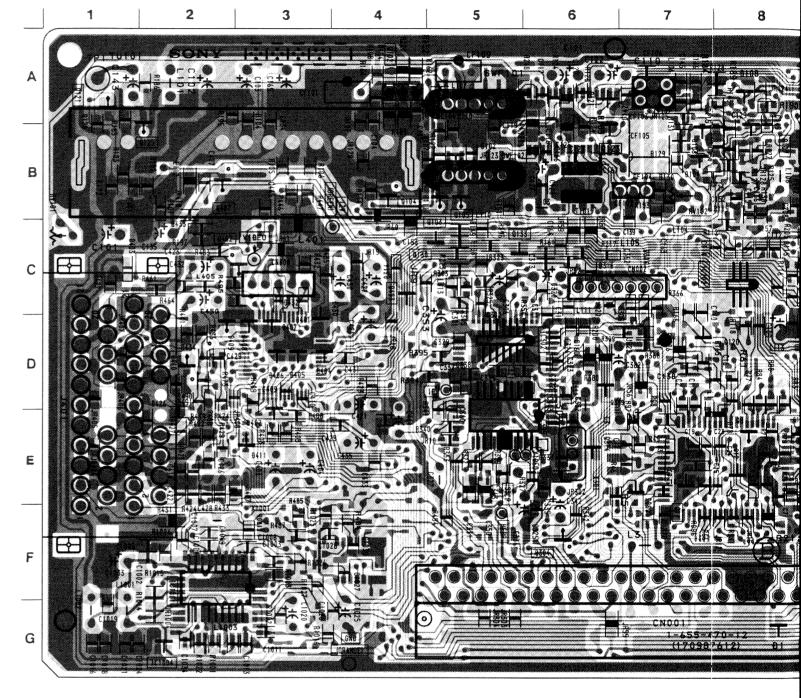


# A BOARD \* MARK

Ref. No.	C2173B	C2171D	C2173E	C2171K	C2171KR
C101	4.7MF 50V	22MF 50V	22MF 50V	22MF 50V	22MF 50V
C143	100MF 16V	-		_	_
C145	-	0 : CHIP	0 : CHIP	-	-
C146	_	0 : CHIP	0 : CHIP		_
C154	33P	68P	68P	68P	68P
C155	_	18P	18P	18P	18P
C157	68P	33P	33P	33P	33P
C162	0.012MF	_	_	_	_
C163	0.001MF	_	_	_	
C363	22P	22P	22P	_	
C1020		22MF 50V	22MF 50V	22MF 50V	22MF 50V
C1033	-	10MF 50V	10MF 50V	10MF 50V	10MF 50V
CF102	5.5MHz/6.6MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz
CF104	6.0MHz	6.5MHz	-	6.5MHz	6.5MHz
CF107	-	-	-		
CF108	6.0MHz	_	_	-	-
D102	DAN202K	_	_	_	_
D103	DAN202K	DAN202K	_	DAN202K	DAN202K
D108				DAN202K	DAN202K
	CYD85340A 1170	CYP05240A 117C	CVP05340A 1100		
C001	CXP85340A-117Q	CXP85340A-117Q	CXP85340A-116Q	CXP85340A-117Q	CXP85340A-1170
C101	TDA9814T/V2	TDA9813T	TDA9813T	TDA9813T	TDA9813T
C1002	CF70200FN	CF70203FN	CF70200FN	CF70203FN	CF70209FN
JR51	_	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR113	-	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR115		_	-	0 : CHIP	0 : CHIP
JR122	_	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR123	_	0 : CHIP	0 : CHIP	0 : CHIP	0 : CHIP
JR124	0 : CHIP	0 : CHIP	0 : CHIP	_	_
JR125	-	-	0 : CHIP	_	
JR201		0 : CHIP	-	0 - CLUD	
				0 : CHIP	0 : CHIP
JR202	-	0 : CHIP	-	0 : CHIP	0 : CHIP
L3	68uH	-	-	-	_
_104	100uH	_	-	_	-
_105	5.6uH	12uH	12uH	12uH	12uH
106	0 : CHIP	-	-	-	-
_108	27uH	39uH	39uH	39uH	39uH
2103	DTC114EK	-	-	-	_
2104	DTC114EK	_	_		_
2105	DTC114EK		-	_	_
2116	DTC144EK			_	
		DTC144EK	-	-	_
2117	DTC144EK	DTC144EK	-	_	_
2121	2SA1037K	_	_		_
Q125	DTC114EK	-	· –	-	-
2126	-	_	-	DTC144EK	DTC144EK
2127	-	-	-	DTC144EK	DTC144EK
2128	-	-	-	DTC144EK	DTC144EK
2305	-	_	JC501	-	-
2399	DTC144EK	_	-	_	_
3399 R134	2.2K	2.2K			
			-	2.2K	2.2K
R135	2.2K	2.2K	-	2.2K	2.2K
R143	2.2K	2.2K	-	_	_
R147	180	220	220	220	220
	-	_	-	2.2K	2.2K
R188	-	_	_	1K	1K
	- !			2.2K	2.2K
R189		-			
R188 R189 R190	-	-			2 JK
R189 R190 R191	-	_	-	2.2K	2.2K
R189 R190 R191 R193	- - 1K	-	-	2.2K -	_
R189 R190 R191 R193 R199	- - 1K 1.2K	_	- - 1K	2.2K	
R189 R190 R191	- - 1K	-	-	2.2K -	_
R189 R190 R191 R193 R199	- - 1K 1.2K	- - 1K	- - 1K	2.2K - 1K	- 1K
R189 R190 R191 R193 R199	- - 1K 1.2K	- - 1K -	- - 1K 10K	2.2K - 1K -	1K
R189 R190 R191 R193 R199 R304	- 1K 1.2K - 2.2K	- - 1K - -	- 1K 10K 2.2K	2.2K - 1K -	- 1K - -



- A BOARD -



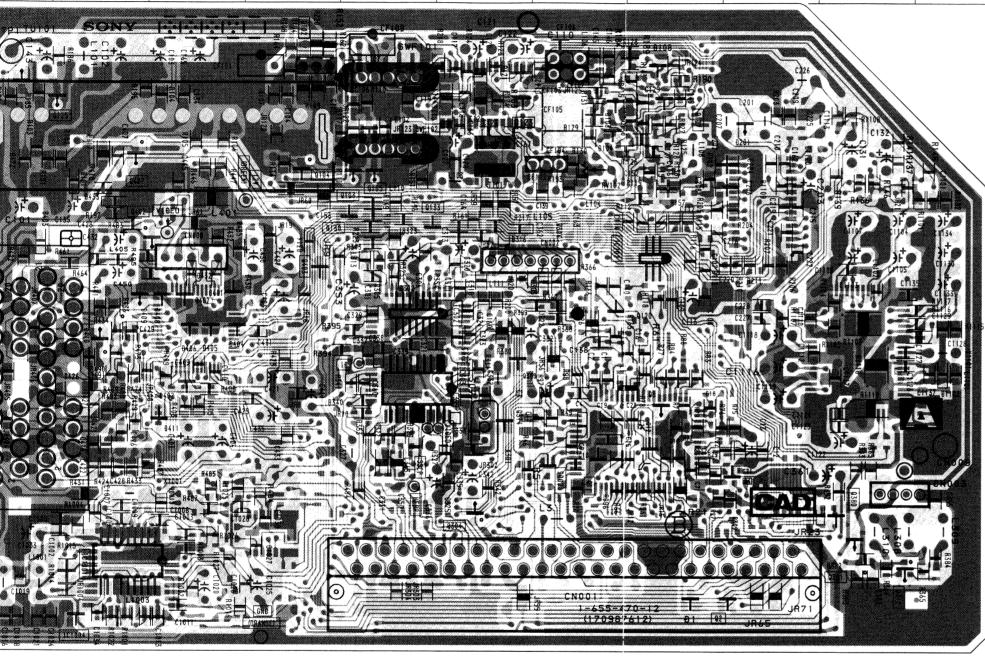
KV-C217

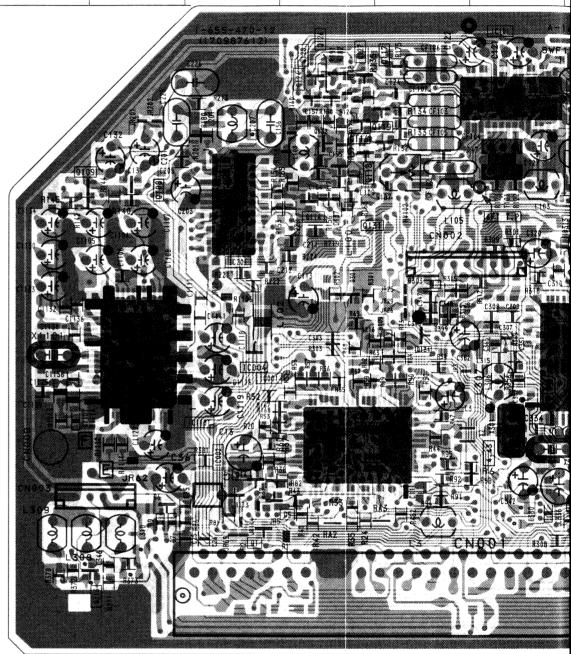
KV-C217

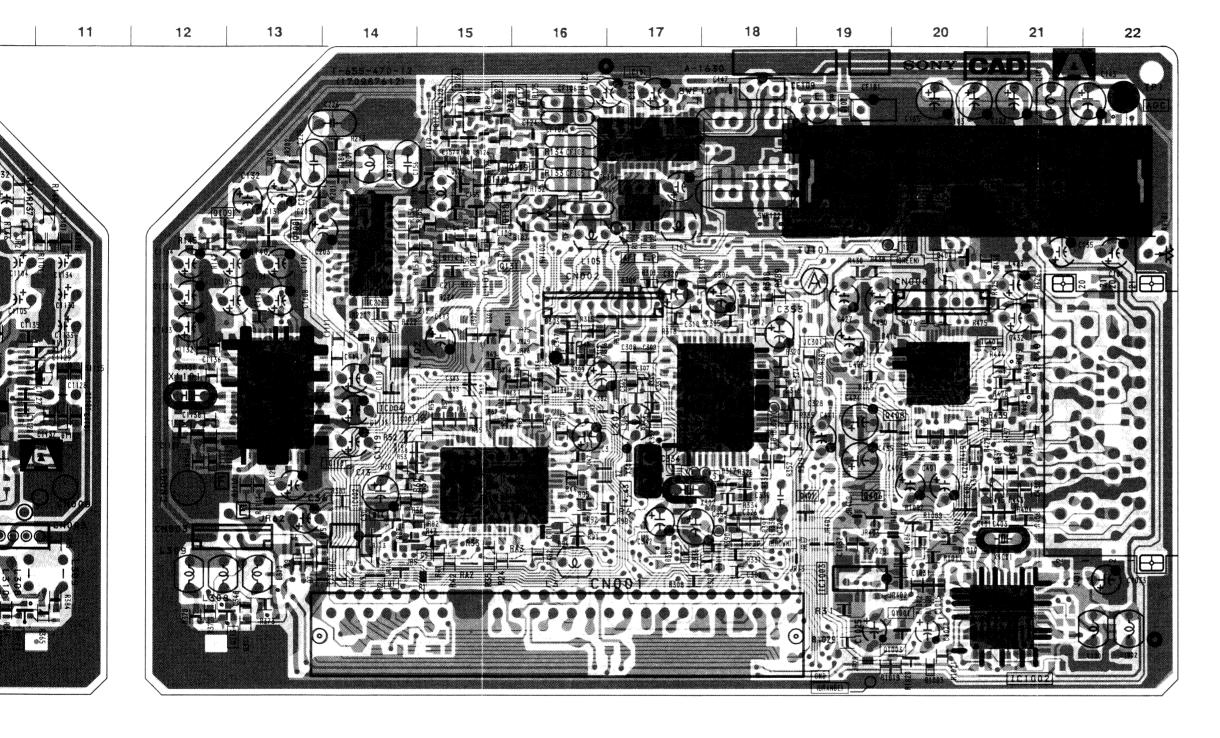
TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

DARD —

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17







# A BOARD

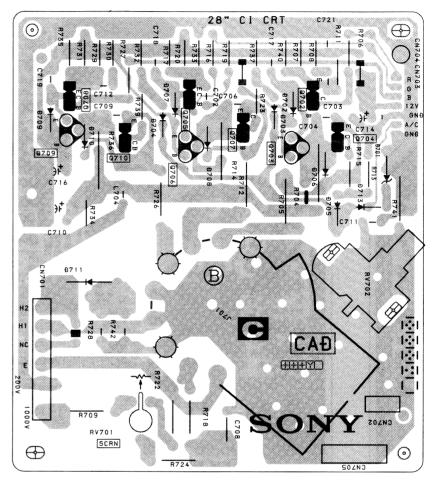
IC		0390	F 10
IC001 IC002 IC003 IC101 IC201 IC202 IC301 IC302 IC303 IC401 IC1001 IC1002	E-15 E-14 E-7 A-17 C-14 C-8 D-19 E-6 E-6 D-21 F-2 G-21	Q380 Q381 Q399 Q401 Q402 Q403 Q404 Q406 Q407 Q408 Q1001	F-10 G-10 D-7 E-19 C-2 C-4 C-20 E-20 B-2 D-20 G-20
IC1003 • IC1101	F-19 E-14	D6 D7	F-14 F-14
TRANSIS	STOR	D9 D11	F-13 E-8
Q4 Q5 Q11 Q12 Q14 Q102 Q 103 Q 104 Q 105 Q 107 Q 108 Q 109 Q 114 Q 116 Q 117 Q 120 Q 121 Q 123 Q 124 Q 125 Q 125 Q 126 Q 127 Q 128 Q 130 Q 131 Q 132 Q 133	F-9 F-15 F-7 E-8 E-14 A-45 B-5 B-13 B-13 C-16 D-8 A-16 D-8 A-15 A-15 A-15 A-15 C-16 B-15 C-16 B-15 A-15 C-16 B-16 C-16 B-16 B-16 B-16 B-16 B-16 B-16 B-16 B	D101 ○ D102 □ D103 ■ D108 □ D201 □ D301 □ D303 □ D304 □ D305 □ D314 □ D315 □ D317 □ D380 □ D401 □ D402 □ D404 □ D405 □ D406 □ D407 □ D408 □ D409 □ D411 □ D1002 □ D110102 □ D110102	B-2 B-5 B-7 A-8 B-9 C-17 C-16 C-7 C-7 C-4 D-17 E-18 F-17 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3 D-3
Q134 Q301 Q304	D-16 C-16 F-6	VARIA RESIS	
Q312 Q313 Q314	G-11 G-13 E-6	O RV102	B-16

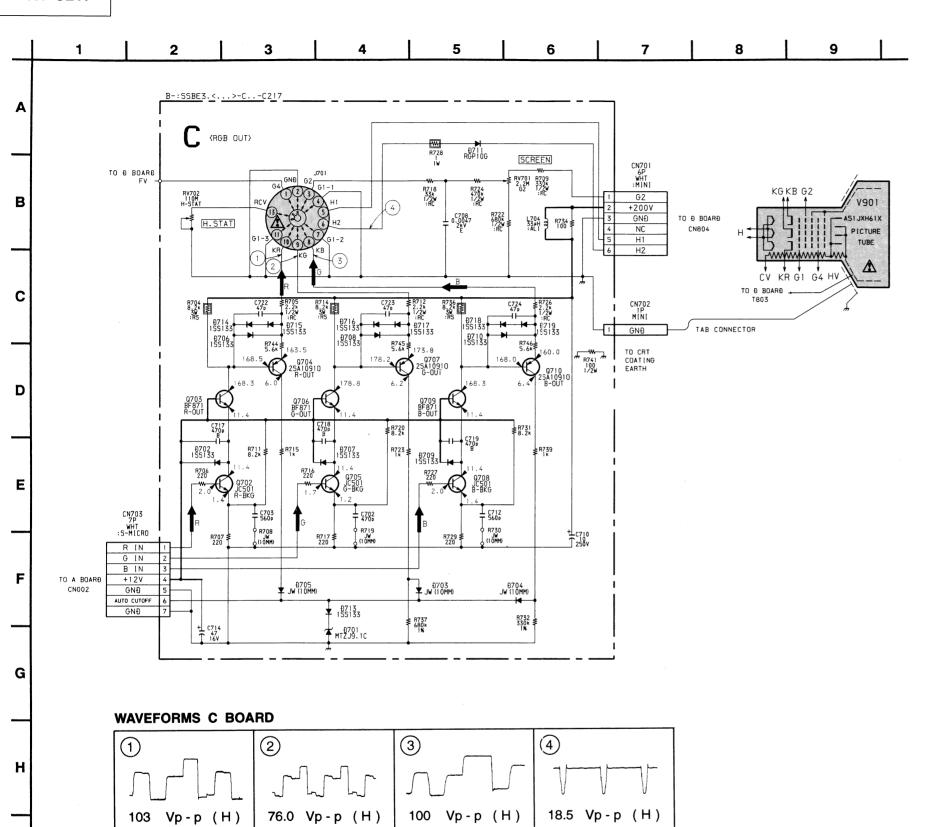
○ mark : KV-C2173B only
 ● mark : KV-C2173B and C2173E only
 □ mark : KV-C2173B, C2171D, C2171K and C2171KR only
 ■ mark : KV-C2171K and C2171KR only

Pattern from the side which enables seeing.Pattern of the rear side.



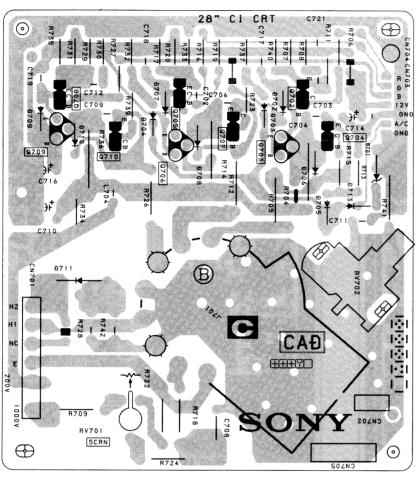
# - C BOARD -







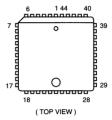
# - C BOARD -



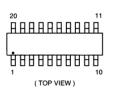
### 5-4. SEMICONDUCTORS

# BA7046F **AAAA** 1 2 3 4 (TOP VIEW)

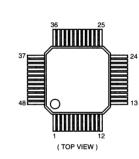




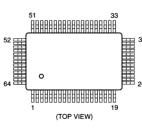
CF72416DW-R TDA8395T



CXA1855Q-T6



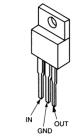
CXP85340A-117Q-TL SAA7283GP TDA8366H/N3



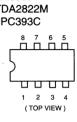
HD14053BF MC14053BF



LM2940CT-5.0 LM2940CT-9.0 MCT7812CT TA7812S µPC2405HF



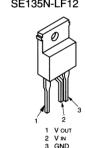
LM393P TDA2822M µPC393C



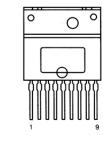
SBX1790-11



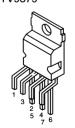
SE-135N SE135N-LF12

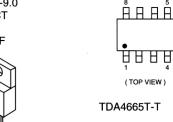


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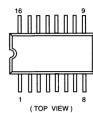


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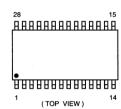




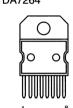
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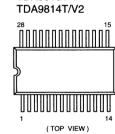
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TDA7264

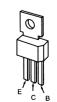


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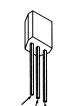


BF871-127



DTA144ES DTC114ES





DTC114EK DTC123EK DTC144EK 2SA1037K 2SA1162-G 2SC2412K



JA101 JC501 2SA1091-O 2SA733-K 2SC2389STP-R 2SC2808STP-R



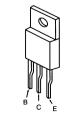
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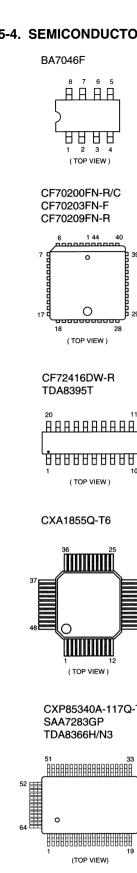


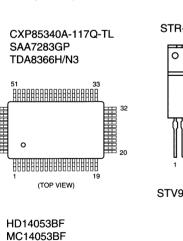
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2SA1667 2SC3852A



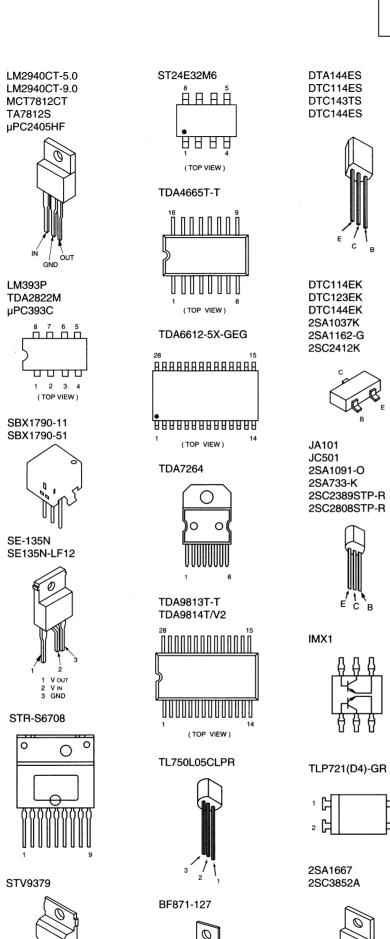


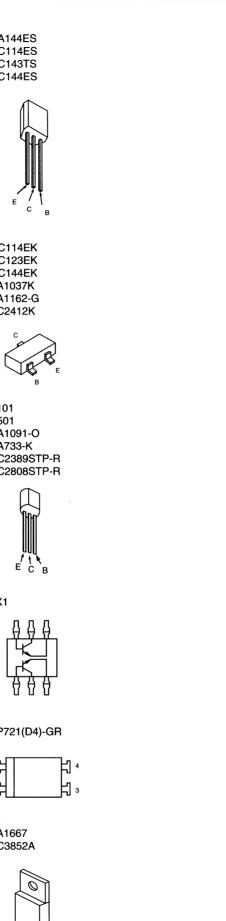


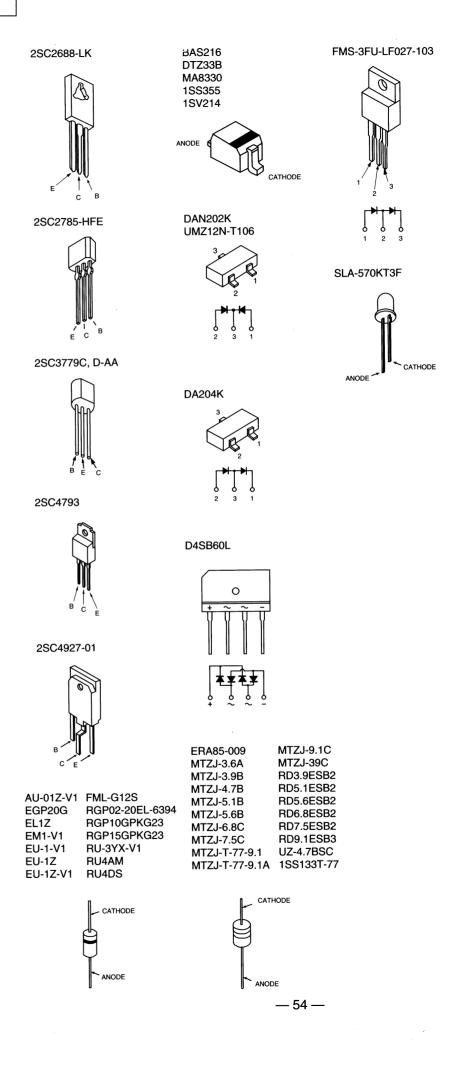
BBBBBBB

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(TOP VIEW)







# SECTION 6

# **EXPLODED VIEWS**

#### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  $\hat{n}$  are critical for safety.

Replace only with the part number specified.

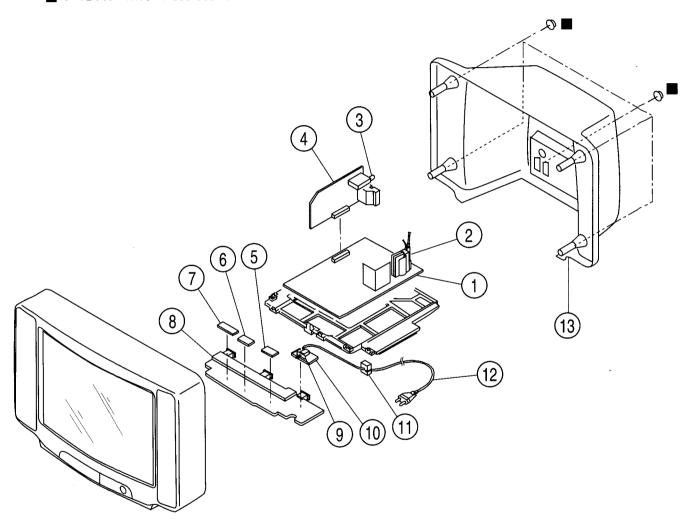
Les composants identifies par une trame et une marque 

\( \frac{1}{1} \) sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

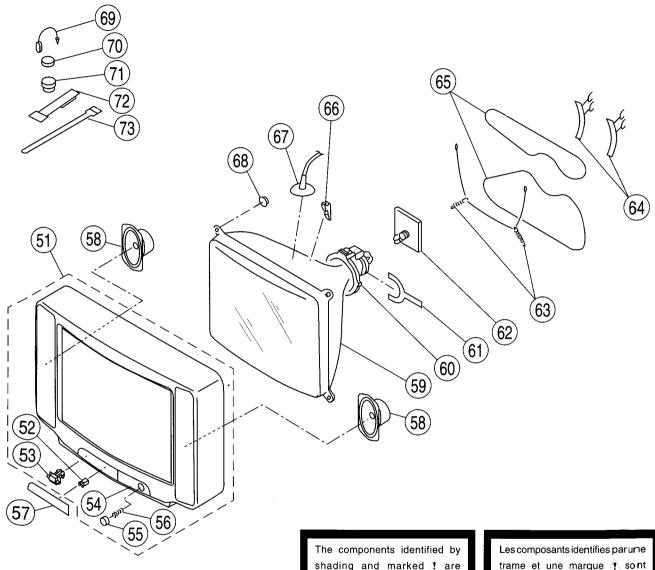
### 6-1. CHASSIS

■ : +BVTP 4X16 7-685-663-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
3 4 5 6 7 8	*A-1642-122-A *B-598-045-00 *A-1632-289-A *A-1632-294-A *A-1632-390-A *A-1632-370-A *A-1666-070-A *A-1646-093-A *A-1646-092-A *4-203-180-01 *A-1624-050-A	D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK ( TUNER (BTP-EC411) A BOARD, COMPLETE (KV-C2173 A BOARD, COMPLETE (KV-C2171 A BOARD, COMPLETE (KV-C2171 A BOARD, COMPLETE (KV-C2171 A BOARD, COMPLETE (KV-C2171 H2 BOARD, COMPLETE H3 BOARD, COMPLETE H1 BOARD, COMPLETE BRACKET, H SMITCH PUSH (AC POWER)	BB) D) E) K) KR)	11 10 10 10 10 10 10 10 10 10 10 10 10 1	4-389-201-11 1-690-270-11 1-765-286-11 4-203-172-01	HOLDER, AC CORD CORD, POWER (WITH CON 2.5A/250V (KV-C2173B/C2173E CORD, POWER (WITH FIL 2.5A/250V (KV-C2171 COVER, REAR	/TER)

# 6-2. PICTURE TUBE



shading and marked 1 are critical for safety.

Replace only with the part number specified.

trame et une marque <u>in</u> sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMIARK
	X-4200-233-1 4-392-036-01 4-203-179-01 3-703-035-11 4-203-176-01 4-203-175-01 1-544-525-11 8-718-763-05 3-452-277-00 *A-1638-055-A	BEZNET ASSY CATCHER, PUSH DOOR, CONTROL (PAINTED) SHAFT, LID BUTTON, POWER SPRING WINDOW, ORNAMENTAL SPEAKER FICTURE TUBE (SD-165) (A5: DEFLECTION YORE 172 PFA2: MAGNET, BMC C BOARD, COMPLETE	52 - 56	66	3-704-495-01	SPRING, TENSION BAND, DGC COLL DEGAUSSING SPACER, DY CAP ASSY HICH VOLTA SCREW SELF TAPPING CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DI PERMALLOY ASSY, CONVI BAND, BINDING	SK; 15MM 0

# **SECTION 7**

# **ELECTRICAL PARTS LIST**

The components identified by shading and marked / are critical

Replace only with the part number specified.

Les composants identifies par une trame et une marque Assont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted. **RESISTORS** 

All resistors are in ohms

F: nonflammable

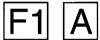
When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

 $MMH:mH,\mu H:mH$ 





REF.NO.	PART NO.	DESCRIPTION	R	EMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>ON</u>		REMARK
	*A-1624-050-A	F1 BOARD, COMPLETE			C101	1-126-963-11	ELECT	4.7MF	20%	50V
		******				1-128-551-11	ELECT	22MF	20%	V-C2173B) 50V
	< CON	NECTOR >						171D/C2173E		
CN603	* *1-580-844-11	PIN, CONNECTOR (POWER)			C102	1-126-966-11		33MF	20%	50V
CN604	* *1-695-292-11	PIN, CONNECTOR (POWER)		1111111	C103	1-126-966-11		33MF	20%	50V
	< FUS				C104 C105		CERAMIC CHIP		10% 10%	50V 25V
					C105		CERAMIC CHIP		10%	50V
F601 🕃	1 1 576 232 21	FOSE (H.B.C.) 5.0A/250V	HHHH					****	_,,	
	A : 1-533-230-11	HOLDER, FUSE , P601			C107		CERAMIC CHIP			16V
					C108		CERAMIC CHIP		10%	50V
	< SWI	TCH >			C109 C112		CERAMIC CHIP		10% 5%	50V 50V
S601		SWITCH, FUSH (AC POWER)	1111111		C112	1-163-117-00		100PF 47MF	5% 20%	16V
THE STATE OF THE S	**************************************	TANKS AND I AM SALLIA	****	20012125	<b>V113</b>	1 120 507 11	DDDC1	7,124	200	201
*****	******	********	******	*****	C114		CERAMIC CHIP			16V
		/			C115		CERAMIC CHIP		5%	50V
	*A-1632-289-A	A BOARD, COMPLETE (KV-C2	2173B)		C117 C118		CERAMIC CHIP		10% 10%	25V 16V
	*A-1632-294-A	A BOARD, COMPLETE (KV-C2	2171D)		C118	1-163-133-00			10% 5%	50V
	1002 201	******			0113	1 100 100 00	02122120 01121	17011		•••
	*A-1632-290-A	A BOARD, COMPLETE (KV-C2	2173E)		C120		CERAMIC CHIP			16V
		*******			C121	1-126-967-11		47MF	20%	16V
	*A-1632-325-A	A BOARD, COMPLETE (KV-C2	2171K)		C122 C123	1-126-967-11	CERAMIC CHIP	47MF	20% 0.25P1	16V
	*A-1632-370-A	A BOARD, COMPLETE (KV-C2	2171KR)		C124		CERAMIC CHIP		10%	50V
		*********			-405	4 464 000 44				4.000
TP1	*1_535_09/_00	1P TERMINAL PIN			C125 C126		CERAMIC CHIP			16V 16V
IFI	T-222-004-00	IF IERMINAL FIN			C127	1-126-966-11		33MF	20%	50V
	< CAP	PACITOR >			C128		CERAMIC CHIP		10%	50V
					C129	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1 C2		CERAMIC CHIP 0.001MF		50V	0120	1 216 205 01	MEMAT OTAGE	n =0.	1 /105	MJ
C2 C3	1-163-009-11	CERAMIC CHIP 0.001MF ELECT 10MF		50V 50V	C130 C131	1-216-295-91 1-126-967-11		0 5% 47MF	1/101 20%	w 16V
C4		CERAMIC CHIP 0.1MF		25V	C131	1-126-967-11		47MF	20%	16V
C7		CERAMIC CHIP 0.001MF	10%	50V	C134		CERAMIC CHIP		10%	50V
					C135	1-126-967-11	ELECT	47MF	20%	16V
C8		CERAMIC CHIP 0.01MF	10%	50V	0135	4 460 400	anniure	45000	F0.	E 011
C10 C11		CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 10%	50V 50V	C137 C139		CERAMIC CHIP		5% 10%	50V 50V
C11		CERAMIC CHIP 0.001MF		25V	C139		CERAMIC CHIP		10% 5%	50V
C13	1-126-933-11			16V	C142	1-104-665-11			20%	16V
	*								(K)	V-C2173B)
C15		CERAMIC CHIP 33PF	5%	50V	01.1	1 160 600 61	ADD.1176 64	4.200		1637
C16 C17		CERAMIC CHIP 0.047MF		25V	C144		CERAMIC CHIP		1/107	16V พ
C17		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF	10% 10%	25V 50V	C145	1-216-295-91	METAL GLAZE	0 5%		n D/C2173E)
C23		CERAMIC CHIP 100PF		50V	C146	1-216-295-91	METAL GLAZE	0 5%	1/107	
						<b></b>				D/C2173E)
C24 C30		CERAMIC CHIP 47PF		50V						
	1 164 004 11	CERAMIC CHIP 0.1MF	10%	25V	C149	1-216-295-91	MTP/TAT. CIT.3717	0 5%	1/101	N



	<b></b>										
	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK	
	C152 C153	1-164-004-11 1-164-337-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF	10%	25V 16V	C322 C323 C324	1-163-009-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	10% 10%	50V 25V	
	C154	1-163-105-00	CERAMIC CHIP 33PF	5%	50V			CERAMIC CHIP 0.1MF	10%	25V	
		1-163-113-00	CERAMIC CHIP 68PF	5%	-C2173B) 50V	C325 C326	1-164-004-11 1-164-161-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0022MF	10% 10%	25V 50V	
	C155	1-163-099-00	(KV-C2171D/C2173E/C CERAMIC CHIP 18PF (KV-C2171D/C2173E/C	5%	50V	C327 C328 C329	1-136-165-00 1-164-337-11 1-164-004-11	FILM 0.1MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.1MF	5% 10%	50V 16V 25V	
	C157	1-163-113-00	CERAMIC CHIP 68PF	5% /KV	50V -C2173B)	C330 C331	1-163-017-00 1-165-320-11	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.47MF	10% 10%	50V	
		1-163-105-00	CERAMIC CHIP 33PF (KV-C2171D/C2173E/C	5%	50V	C332 C334	1-163-097-00 1-163-016-00	CERAMIC CHIP 15PF	5%	16V 50V	
	C160	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	C335	1-164-004-11	CERAMIC CHIP 0.0039MF CERAMIC CHIP 0.1MF	10% 10%	50V 25V	
	C162	1-163-022-00	CERAMIC CHIP 0.012MF	10%	50V -C2173B)	C336 C337	1-126-933-11 1-164-489-11		20%	16V	
	C163	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	C338	1-164-004-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.1MF	10% 10%	16V 25V	
	C164	1-163-119-00	CERAMIC CHIP 120PF	5% (KV	-C2173B) 50V	C339 C342	1-164-004-11 1-126-964-11	CERAMIC CHIP 0.1MF ELECT 10MF	10% 20%	25V 50V	
	C165	1-126-933-11	ELECT 100MF	20%	16V	C346	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
	C201 C202	1-164-005-11 1-163-137-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 680PF	5%	25V 50V	C347 C348	1-163-113-00	CERAMIC CHIP 68PF	5%	5 OV	
	C203	1-126-964-11	ELECT 10MF	20%	50V 50V	C348	1-163-113-00 1-163-113-00	CERAMIC CHIP 68PF CERAMIC CHIP 68PF	5% 5%	50V 50V	
	C204	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	C350	1-165-320-11	CERAMIC CHIP 0.47MF	10%	16V	
	C205	1-164-005-11	CERAMIC CHIP 0.47MF		25V	C351	1-164-004-11		10%	25V	
	C206 C207	1-164-346-11 1-137-613-11	CERAMIC CHIP 1MF FILM 0.0018MF	2%	16V 100V	C352 C353	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	
	C208	1-164-346-11	CERAMIC CHIP 1MF	40	16V	C355	1-126-967-11 1-163-113-00	ELECT 47MF CERAMIC CHIP 68PF	20% 5%	16V 5 <b>0</b> V	
	C209	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	C359	1-164-005-11	CERAMIC CHIP 0.47MF	30	25V	
	C210	1-164-005-11	CERAMIC CHIP 0.47MF		25V	C361	1-126-964-11	ELECT 10MF	20%	5 <b>0</b> V	
	C211 C212	1-164-005-11 1-164-005-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF		25V	C362	1-163-109-00	CERAMIC CHIP 47PF	5%	5 <b>0</b> V	
		1-163-023-00	CERAMIC CHIP 0.47MF	10%	25V 50V	C363	1-163-101-00	CERAMIC CHIP 22PF (KV-C2173	5% 10/021717	50V	
	C216	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V	C365	1-163-101-00	CERAMIC CHIP 22PF	5%	5 <b>O</b> V	
	C219	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V	C382	1-126-964-11	ELECT 10MF	20%	5 <b>0</b> V	
		1-163-011-11 1-163-037-11	CERAMIC CHIP 0.0015MF	10%	50V	C383	1-163-101-00	CERAMIC CHIP 22PF	5%	5 <b>0</b> V	
	C222	1-163-037-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF	10% 10%	25V 25V	C399 C401	1-163-097-00 1-126-967-11	CERAMIC CHIP 15PF ELECT 47MF	5%	5 <b>0</b> V	
		1-130-489-00	FILM 0.033MF	5%	50V	C401	1-163-017-00	ELECT 47MF CERAMIC CHIP 0.0047MF	20% 10%	16V 50V	
		1-130-489-00		5%	50V	C403	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	5 <b>0</b> V	
		1-163-020-00 1-163-020-00	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF	10% 10%	50V 50V	C404 C406	1-126-967-11 1-126-964-11		20%	16V	
		1-164-346-11	CERAMIC CHIP 1MF	10%	16V	C406		ELECT 10MF CERAMIC CHIP 1MF	20%	50 V 16 V	
(			CERAMIC CHIP 470PF	5%	50V	C409	1-164-005-11	CERAMIC CHIP 0.47MF		25 V	
				10%	50V	C410		CERAMIC CHIP 0.47MF		25 V	
			CERAMIC CHIP 390PF	5%	50V	C411	1-126-967-11		20%	16 V	
		1-164-004-11 1-126-933-11	CERAMIC CHIP 0.1MF ELECT 100MF	10% 20%	25V 16V	C418 C420	1-163-121-00 1-216-295-91	CERAMIC CHIP 150PF	5%	50 V	
			CERAMIC CHIP 0.1MF	10%	25V	C421		METAL GLAZE 0 5% ELECT 33MF	1/10W 20%	50 V	
(				10%	25V	C422	1-163-121-00	CERAMIC CHIP 150PF	5%	50 V	
				10%	25V	C423	1-126-967-11		20%	15 V	
				10% 10%	25V 25V	C425 C426		CERAMIC CHIP 0.0047MF	10%	50 V	
(				10%	25V	C427	1-126-967-11	CERAMIC CHIP 1MF ELECT 47MF	20%	16 <b>V</b> 15 <b>V</b>	
				10%	25V	C428		CERAMIC CHIP 1MF		15 <b>V</b>	
				10% 10%	25V	C429		CERAMIC CHIP 0.01MF	10%	50 V	
C	316			10%	25V 25V	C430 C431	1-126-967-11 1-163-017-00	ELECT 47MF CERAMIC CHIP 0.0047MF	20% 10%	15 <b>▼</b> 5) <b>▼</b>	
				10%	25V	C432	1-126-967-11		20%	15 <b>V</b>	
		1-126-967-11		20%	16V	C433		CERAMIC CHIP 0.1MF	10%	25 V	
_		T-103-002-11	CEMAMIC CHIP U.UUIMF	10%	50V	C434	1-164-346-11	CERAMIC CHIP 1MF		16	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C435 C436 C437		ELECT 100MF CERAMIC CHIP 470PF CERAMIC CHIP 1MF	20% 16V 5% 50V 16V	C1128 C1129		CERAMIC CHIP 0.022MF CERAMIC CHIP 0.33MF	10% 25V 25V
C438 C445 C1002 C1003 C1004	1-163-133-00 1-164-004-11 1-164-004-11 1-163-037-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.022MF CERAMIC CHIP 15PF	5% 50V 10% 25V 10% 25V 10% 25V 5% 50V	C1130 C1131 C1132 C1133 C1134		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF	20% 50V 10% 25V 10% 25V 20% 16V 20% 50V
C1005 C1006 C1007 C1008 C1009	1-163-009-11 1-163-037-11 1-163-125-00 1-163-125-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.022MF CERAMIC CHIP 220PF CERAMIC CHIP 220PF CERAMIC CHIP 15PF	10% 50V 10% 25V 5% 50V 5% 50V 5% 50V	C1135 C1136 C1137 C1139	1-164-004-11 1-163-095-00 1-164-004-11	CERAMIC CHIP 220PF CERAMIC CHIP 0.1MF CERAMIC CHIP 12PF CERAMIC CHIP 0.1MF	5% 50V 10% 25V 5% 50V 10% 25V
CIUUS	1 103 077 00	CEROMIC CHII 1511	3.0 304		V 111	IIIK >	
C1011 C1013 C1015 C1016 C1018	1-164-346-11 1-164-232-11 1-163-009-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	10% 50V 16V 10% 50V 10% 50V 10% 25V	CF101 CF102 CF103	1-409-430-11 1-404-134-00	TRAP, CERAMIC TRAP, CERAMIC (KV-C2173 TRAP, CERAMIC (5.5MHZ) (KV-C2171D/C2173H FILTER, CERAMIC	
C1019 C1020	1-164-004-11 1-128-551-11		10% 25V 20% 50V E/C2171K/C2171KR)	CF104	1-567-100-00 1-567-101-11	FILTER, CERAMIC (KV-C21 FILTER, CERAMIC (KV-C2171)	.73B) D/C2171K/C2171KR)
C1021 C1024		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF	10% 25V 10% 50V	CF106 CF107	1-760-416-21 1-760-449-11	FILTER, CERAMIC FILTER, CERAMIC (KV-C21	•
C1025 C1026		CERAMIC CHIP 0.1MF	20% 16V 10% 25V	CF108		FILTER, CERAMIC (KV-C21	.73B)
C1027 C1028 C1029	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 25V 10% 25V 10% 25V	SWF101 SWF102	1-760-244-11	FILTER, SURFACE WAVE FILTER, SURFACE WAVE (F FILTER, SURFACE WAVE (KV-C2171D/C2173E	
C1030 C1031	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 25V 10% 25V		< CON	NECTOR >	,, , , , , , , , , , , , , , , , , , , ,
C1032 C1033	1-164-004-11 1-126-964-11		10% 25V 20% 50V E/C2171K/C2171KR)	CN001 CN002 CN003	*1-568-882-51	CONNECTOR, BOARD TO BOA PIN, CONNECTOR 7P PIN, CONNECTOR 4P	RD 50?
C1034	1-164-346-11	CERAMIC CHIP 1MF	16V		< DIC	•	
		101 - C1139 FITTED ON > < KV-C2173B/C2173E >		D6	8-719-047-41	DIODE UMZ12N-T106	
C1101 C1102 C1103 C1104	1-163-093-00	CERAMIC CHIP 390PF CERAMIC CHIP 10PF CERAMIC CHIP 0.1MF ELECT 10MF	5% 50V 5% 50V 10% 25V 20% 50V	D7 D9 D11 D101	8-719-988-62 8-719-988-62 8-719-977-81		
C1105	1-126-964-11		20% 50V	D102 D103	8-719-914-43 8-719-914-43		
C1106 C1107 C1108 C1110	1-126-967-11 1-126-964-11 1-163-809-11	ELECT 10MF CERAMIC CHIP 0.047MF	10% 25V 20% 16V 20% 50V 10% 25V	D108 D201	8-719-914-42	(KV-C2173B/C2171D DIODE DAN202K (KV-C2171 DIODE DA204K	
C1111 C1112 C1113	1-164-489-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 680PF	10% 16V 10% 16V 5% 50V	D301 D303 D304 D305	8-719-988-62 8-719-988-62	DIODE 1SS355 DIODE 1SS355 DIODE 1SS355 DIODE 1SS355	
C1116 C1117 C1118	1-126-967-11	ELECT 47MF CERAMIC CHIP 0.1MF	20% 16V 10% 25V 20% 16V	D314 D315	8-719-047-16 8-719-988-62	DIODE BAS216 DIODE 1SS355	
C1119 C1120 C1122 C1123	1-126-967-11	CERAMIC CHIP 680PF	20% 16V 5% 50V 20% 16V 10% 25V	D317 D380 D401 D402	1-216-295-91 8-719-047-41	DIODE DA204K METAL GLAZE 0 5% DIODE UMZ12N-T106 DIODE UMZ12N-T106	1/1 <b>0</b> W
C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D404 D405	8-719-047-41	DIODE UMZ12N-T106 DIODE UMZ12N-T106	
C1125 C1126	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V 5% 50V	D406	8-719-047-41 8-719-047-41	DIODE UMZ12N-T106	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D409 D410 D411 D1002 D1101	8-719-047-41 8-719-047-41 8-719-047-41 8-719-914-43 8-719-988-62	DIODE UMZ12N-T106 DIODE UMZ12N-T106 DIODE UMZ12N-T106 DIODE DAN202K DIODE 1SS355 (KV-C217	3B/C2173E)	L401 L1001 L1002 L1003 L1101	1-408-419-00 1-408-419-00 1-410-999-11	INDUCTOR INDUCTOR CHIP	68UH 68UH 3.3UH	KV-C2173B/C2173E)
D1102	8-719-820-71	DIODE 1SV214 (KV-C217	3B/C2173E)	T101	1-403-686-11	COIL		
	< IC	>			< TRA	NSISTOR >		
IC001	8-752-857-01	IC CXP85340A-117Q-TL (KV-C2173B/C217	1D/C2171K/C2171KR)	Q4 Q5	8-729-901-01 8-729-920-74	TRANSISTOR DTO	:144EK :2412K-OR	
IC002 IC003		IC CXP85340A-116Q-TL IC ST24E32M6TR	(KV-C2173E)	Q11 Q12 Q14	8-729-920-74 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	:2412K-QR :2412K-QR	
IC101	8-759-289-18	IC TDA9813T-T (KV-C2171D/C217	3E/C2171K/C2171KR)	Q102 Q103	8-729-022-54	TRANSISTOR 2SC TRANSISTOR DTC	3779C,D-	AA W. G21737)
IC201 IC202	8-759-277-66 8-759-252-14 8-759-514-57	IC TDA9814T/V2 (KV-C2 IC TDA6612-5X-GEG IC BA7046F	173B)	Q104 Q105 Q107	8-729-900-53 8-729-900-53	TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR 2SC	114EK (K 114EK (K	V-C2173B) V-C2173B)
IC301 IC302 IC303 IC401 IC1001	8-759-336-44 8-759-288-85 8-759-251-56 8-752-069-53 8-759-295-92	IC TDA9814T/V2 (KV-C2 IC TDA6612-5X-GEG IC BA7046F  IC TDA8366H-N3 IC TDA4665T-T IC TDA8395T IC CXA1855Q-T6 IC CF72416DW-R IC CF70200FN-R/C (KV-		Q108 Q109 Q114 Q116 Q117	8-729-907-26 8-729-920-74 8-729-901-01	TRANSISTOR IMX TRANSISTOR 1MX TRANSISTOR 2SC TRANSISTOR DTC TRANSISTOR DTC	1 2412K-QR 144EK (K	V-C2173B/C2171D) V-C2173B/C2171D)
IC1002 IC1003 IC1101	8-759-336-09 8-759-361-19 8-759-300-71	IC CF70200FN-R/C (KV-IC CF70203FN-F (KV-C2 IC CF70209FN-R (KV-C2 IC HD14053BF IC SAA7283GP (KV-C217	171D/C2171K) 171KR)	Q120 Q121 Q123 Q124 Q125	8-729-216-22 8-729-901-01 8-729-901-01	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR DTC	1162-G (1 144EK 144EK	
	< SOC	CKET >		Q126	8-729-901-01	TRANSISTOR DTC	144EK (K	V-C2171K/C2171KR)
J401	1-766-296-11 < COI	CONNECTOR, DUAL SCART		Q127 Q128 Q130 Q131	8-729-901-01 8-729-920-74	TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR 2SC TRANSISTOR 2SA	144EK (KY 2412K-OR	V-C2171K/C2171KR) V-C2171K/C2171KR)
L1 L3 L100 L101 L102	1-410-385-11 1-408-419-00 1-410-989-11 1-408-609-41	INDUCTOR CHIP 22UH INDUCTOR 68UH ( INDUCTOR CHIP 0.47UH	KV-C2173B)	Q132 Q133 Q134 Q301 Q304	8-729-920-74 8-729-920-74 8-729-900-53 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K-QR 2412K-QR 114EK 2412K-QR	
L103 L104 L105	1-408-609-41 1-414-170-11 1-408-406-00 1-408-410-00	INDUCTOR CHIP 100UH INDUCTOR 5.6UH INDUCTOR 12UH	(KV-C2173B) (KV-C2173B) 3E/C2171K/C2171KR)	Q312 Q313 Q314 Q380 Q381	8-729-920-74 8-729-900-53 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTC TRANSISTOR 2SC TRANSISTOR 2SC	2412K-QR 114EK 2412K-QR	
L106	1-216-295-91	METAL GLAZE 0 5	% 1/10W	Q399		TRANSISTOR DTC		7-C2173B)
L107 L108	1-410-985-11 1-408-414-00 1-408-416-00	INDUCTOR 39UH	(KV-C2173B)  KV-C2173B)  3E/C2171K/C2171KR)	Q401 Q402 Q403 Q404	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2412K-QR 2412K-QR 2412K-QR	
L109 L110 L111 L112 L201	1-412-004-31 1-414-170-11	INDUCTOR CHIP 22UH INDUCTOR CHIP 6.8UH INDUCTOR CHIP 100UH INDUCTOR CHIP 4.7UH INDUCTOR 4.7MMH		Q406 Q407 Q408 Q1001	8-729-920-65 8-729-920-74 8-729-920-74		123EK 2412K-QR	
L307 L308 L309 L310 L313	1-408-609-41 1-408-424-00 1-408-424-00 1-408-407-00 1-216-295-91	INDUCTOR 180UH INDUCTOR 180UH INDUCTOR 6.8UH	% 1/10W	JR3 JR8 JR9 JR10 JR12	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE ( METAL GLAZE ( METAL GLAZE (	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L315	1-412-008-11	INDUCTOR CHIP 15UH		JR13	1-216-295-91	METAL GLAZE (	) 5%	1/10W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
JR14	1-216-295-91			R42	1-216-073-00		0K 5%	1/10W
JR15 JR16	1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5%		R43 R44	1-216-073-00 1-216-121-91		OK 5% M 5%	1/10W 1/10W
JR17	1-216-295-91		•	R46	1-216-049-91			1/10W 1/10W
JR18	1-216-295-91		1/10W	R47	1-216-073-00	METAL GLAZE 1	OK 5%	1/10W
JR19 JR20	1-216-295-91 1-216-295-91			R49 R50	1-216-025-91 1-216-049-91		00 5% K 5%	1/10W 1/10W
JR25	1-412-006-31	INDUCTOR CHIP 10UH	1/10W	R51	1-216-049-91	METAL GLAZE 1		1/10W 1/10W
JR26	1-412-006-31	INDUCTOR CHIP 10UH		R52	1-216-049-91	METAL GLAZE 1	K 5%	1/10W
JR28 JR29	1-216-296-91		1/8W	R53			OK 5%	1/10W
JR51	1-412-006-31 1-216-296-91		1/8W	R54 R55	1-216-049-91 1-216-025-91		K 5% 00 5%	1/10W 1/10W
TOEO	1 216 205 01		E/C2171K/C2171KR)	R56	1-216-025-91		00 5%	1/10W
JR52	1-216-295-91			R57	1-216-025-91		00 5%	1/10W
JR55 JR56	1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5%		R58 R59	1-216-025-91 1-216-121-91		00 5% 5%	1/10W 1/10W
JR59	1-216-296-91	METAL GLAZE 0 5%		R60	1-216-025-91		00 5%	1/10W
JR60		METAL GLAZE 0 5%	•	R61	1-216-025-91		00 5%	1/10W
JR61	1-216-296-91		1/8W	R62	1-216-073-00	METAL GLAZE 1	OK 5%	1/10W
JR62 JR65	1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5%		R63 R64	1-216-073-00 1-216-073-00		OK 5%	1/10W
JR71	1-216-296-91			R66	1-216-073-00		OK 5% 20 5%	1/10W 1/10W
JR113	1-216-295-91	METAL GLAZE 0 5%		R67	1-216-025-91	METAL GLAZE 1	00 5%	1/10W
		(KV-C2171D/C2173	E/C2171K/C2171KR)	R68	1-216-025-91	METAL GLAZE 1	00 5%	1/1 <b>0</b> W
JR114	1-216-295-91			R69	1-216-025-91		00 5%	1/10W
JR115	1-216-295-91	METAL GLAZE 0 5%	1/10W V-C2171K/C2171KR)	R70 R73	1-216-049-91 1-216-677-11			1/1 <b>0W</b> % 1/1 <b>0W</b>
JR120	1-216-295-91	METAL GLAZE 0 5%		R77	1-216-065-00		.7K 5%	1/10W
JR122	1-216-295-91		1/10W E/C2171K/C2171KR)	R78	1-216-037-00	METAL GLAZE 33	30 5%	1/1 <b>0</b> W
				R82	1-216-073-00		OK 5%	1/1 <b>0</b> W
JR123	1-216-295-91		1/10W E/C2171K/C2171KR)	R83 R84	1-216-065-00 1-216-065-00		.7K 5%	1/1 <b>0</b> W
JR124	1-216-295-91			R85	1-216-005-00		.7K 5% )0 5%	1/1 <b>0</b> W 1/1 <b>0</b> W
JR125	1-216-295-91	(KV-C217 METAL GLAZE 0 5%	3B/C2171D/C2173E) 1/10W	R86	1-216-025-91	METAL GLAZE 10	00 5%	1/1 <b>0</b> W
*******	1 210 255 51		(KV-C2173E)	R87	1-216-073-00		)K 5%	1/1 <b>O</b> W
JR126	1_216_205_01	METAL GLAZE 0 5%	1/10W	R88 R89	1-216-065-00 1-216-073-00		.7K 5%	1/10W
JR201		METAL GLAZE 0 5%	1/10W	R90	1-216-073-00			1/1 <b>O</b> W 1/1 <b>O</b> W
JR202	1_216_205_01	(KV-C2171 METAL GLAZE 0 5%	D/C2171K/C2171KR) 1/10W	R91	1-216-049-91		7 5%	1/10W
011202	1-210-255-51		D/C2171K/C2171KR)	R92	1-216-049-91	METAL GLAZE 1	<b>5</b> %	1/10W
JR302	1_216_205_01	METAL GLAZE 0 5%	1/10W	R93 R94	1-216-049-91 1-216-039-00			1/10W
JR408		METAL GLAZE 0 5%	•	R96	1-216-039-00		00 5% 2K 5%	1/10W 1/10W
JR1004	1-216-295-91		•	R97	1-216-049-91			1/10W
R2	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R99	1-216-049-91	METAL GLAZE 1F	5%	1/10W
R5	1-216-073-00			R101	1-208-806-11			6 1/10 W
R6 R20	1-216-025-91 1-216-073-00		•	R103 R104	1-208-810-11 1-216-073-00			% 1/10W 1/10W
R21	1-216-182-00			R105	1-216-025-91			1/10 W
R24		METAL GLAZE 1K 5%		R106	1-216-025-91			1/10W
R25 R26	1-216-073-00 1-216-174-00	METAL GLAZE 10K 5% METAL GLAZE 100 5%		R107	1-216-053-00		5K 5%	1/10 W
R27		METAL GLAZE 100 5% METAL GLAZE 4.7K 5%		R108 R109	1-216-059-00 1-216-180-00		7K 5% 0 5%	1/10/W 1/8W
R29	1-216-049-91			R110	1-216-057-00		2K 5%	1/10W
R31		METAL GLAZE 1K 5%	•	R111	1-216-057-00		2K 5%	1/10W
R33 R35	1-216-063-00 1-216-065-00	METAL GLAZE 3.9K 5% METAL GLAZE 4.7K 5%	•	R112 R113	1-216-065-00 1-216-073-00		7K 5%	1/10W 1/10W
R37.		METAL GLAZE 4.7K 5%		R114	1-216-073-00			1/1) W
R38	1-216-049-91		•	R115	1-218-755-11			1/10 W
R41	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R116	1-216-113-00	METAL GLAZE 47	OK 5%	1/1) W



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REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	)N		REMARK
R117	1-216-057-00	METAL GLAZE	2 22	E0.	1 /1007	D10F	1 016 081 00		0 0=	<b>F</b> 0	4 /4 0
R117	1-216-037-00	METAL GLAZE	2.2K 270K	5% 5%	1/10W 1/10W	R185	1-216-071-00	METAL GLAZE	8.2K		1/10W
R119	1-216-049-91		270K	5% 5%	1/10W	R186 R188	1-216-059-00 1-216-057-00	METAL GLAZE METAL GLAZE	2.7K	5%	1/10W
R120	1-216-035-00		270	5%	1/10W 1/10W	VIOO	1-210-037-00	METAL GLAZE	2.2K		1/10W
1120	1 210 033 00	MITTEL CHAZE	270	J.0	1/1011					(KV-C	2171K/C2171KR)
R121	1-216-035-00	METAL GLAZE	270	5%	1/10W	R189	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R122	1-216-089-91	METAL GLAZE	47K	5%	1/10W						2171K/C2171KR)
R123	1-216-089-91		47K	5%	1/10W	R190	1-216-057-00	METAL GLAZE	2.2K		1/10W
R124	1-216-031-00	METAL GLAZE	180	5%	1/10W					(KV-C	2171K/C2171KR)
R125	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R191	1-216-057-00	METAL GLAZE	2.2K		1/10W
R126	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W					(KV-C	2171K/C2171KR)
R127	1-216-063-00		470	5% 5%	1/10W 1/10W	R193	1-216-049-91	METAL GLAZE	177	F0.	1 /1 014
R128	1-216-043-91		560	5%	1/10W	KIJJ	1-210-043-31	METAL GUAZE	1K	5%	1/10W (KV-C2173B)
R130	1-216-043-91		560	5%	1/10W	R194	1-216-180-00	METAL GLAZE	180	5%	1/8W
R131	1-216-043-91		560	5%	1/10W	R195	1-216-113-00	METAL GLAZE	470K	5%	1/10W
					•	R196	1-216-017-91	METAL GLAZE	47	5%	1/10W
R134	1-216-057-00	METAL GLAZE	2.2K		1/10W						-, -,
					2171K/C2171KR)	R197	1-216-041-00	METAL GLAZE	470	5%	1/10W
R135	1-216-057-00	METAL GLAZE	2.2K		1/10W	R198	1-216-029-00	METAL GLAZE	150	5%	1/10W
D116	1 016 001 00	•			2171K/C2171KR)	R199	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R136	1-216-081-00	METAL GLAZE	22K	5%	1/10W		4 045 054 00				2171K/C2171KR)
R137	1-216-081-00	METAL GLAZE	22K	5%	1/10W		1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R137	1-216-065-00		4.7K	5% 5%	1/10W 1/10W						(KV-C2173B)
R140	1-216-089-91		47K	5%	1/10W 1/10W	R200	1-216-047-91	METAL GLAZE	820	EO	1 /1 01/1
R141	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R201	1-216-053-00	METAL GLAZE	1.5K	5% 5%	1/10W 1/10W
R142	1-216-089-91		47K	5%	1/10W	R202	1-216-091-00	METAL GLAZE	56K	5%	1/10W
				••	_,,	R203	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R143	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R204	1-216-025-91	METAL GLAZE	100	5%	1/10W
-444					C2173B/C2171D)						·
R144	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R205	1-216-025-91		100	5%	1/10W
R145	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	R206	1-216-049-91		1K	5%	1/10W
R146	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R207	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R147	1-216-031-00	METAL GLAZE	180	5%	1/10W	R210 R211	1-216-025-91 1-216-025-91	METAL GLAZE	100	5%	1/10W
	1 210 031 00	MUIAU GUADA	100	J.0	(KV-C2173B)	KZII	1-210-025-91	METAL GLAZE	100	5%	1/10W
	1-216-033-00	METAL GLAZE	220	5%	1/10W	R213	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
		(KV-C21		173E/0	2171K/C2171KR)	R216	1-216-685-11	METAL CHIP	27K		1/10W
R148	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R217	1-216-031-00	METAL GLAZE	180	5%	1/10W
5110						R219	1-216-025-91	METAL GLAZE	100	5%	1/10W
R149	1-216-049-91		1K	5%	1/10W	R220	1-216-174-00	METAL GLAZE	100	5%	1/8W
R150 R151	1-216-295-91		0	5%	1/10W						
R151	1-216-081-00 1-216-174-00	METAL GLAZE METAL GLAZE	22K 100	5% 5%	1/10W	R221	1-216-025-91	METAL GLAZE	100	5%	1/10W
R153	1-216-057-00	METAL GLAZE	2.2K	5%	1/8W 1/10W	R222 R223	1-216-025-91 1-216-029-00	METAL GLAZE	100	5% 5%	1/10W
	1 210 05/ 00	MBIAD GDAZD	2.21	J.0	1/10#	R224	1-216-025-91	METAL GLAZE	150 100		1/10W 1/10W
R154	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R301		METAL GLAZE	6.8K		1/10W
R155	1-216-089-91		47K	5%	1/10W		1 210 003 00	MDIAL GUADS	0.0K	J-0	1/1011
R156	1-216-073-00		10K	5%	1/10W	R302	1-216-295-91	METAL GLAZE	0	5%	1/10W
R157	1-216-295-91		0	5%	1/10W	R303	1-216-091-00		56K		1/10W
R160	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R304	1-249-429-11	CARBON	10K	5%	1/4W
R161	1 016 021 00	MMM11 01107	100	F0.	4 /4 0**		4 04 0 04 0 04		_		(KV-C2 173E)
R162	1-216-031-00		180	5%	1/10W	R305	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R163	1-216-017-91 1-216-049-91		47 1K	5% 5%	1/10W 1/10W	D200	1 016 005 01	10001 ALIGN	100		4 /4 0**
R164	1-216-025-91		100	5%	1/10W 1/10W	R308 R309	1-216-025-91 1-216-025-91		100		1/10W
R165	1-216-089-91		47K	5%	1/10W	R311	1-216-025-91	METAL GLAZE	100 100		1/10W
			-/		1/1011	R313	1-216-025-91	METAL GLAZE	100		1/10W 1/10W
R166	1-216-097-91	METAL GLAZE	100K	5%	1/10W	R315		METAL GLAZE	100		1/10W
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W				100	J.0	_,,
R168	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R316	1-216-025-91	METAL GLAZE	100	5%	1/10W
R170	1-216-073-00		10K	5%	1/10W	R317	1-216-025-91	METAL GLAZE	100		1/10W
R171	1-216-035-00	METAL GLAZE	270	5%	1/10W	R318	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R172	1 046 555 61				4.444	R319	1-216-025-91		100		1/10W
R172 R173	1-216-295-91		0	5%	1/10W	R320	1-216-025-91	METAL GLAZE	100	5%	1/10W
R174	1-216-035-00		270	5%	1/10W	D201	1 016 005 01		4.0.0		4.44
R180	1-216-061-00 1-216-049-91	METAL GLAZE	3.3K	5% 5%	1/10W	R321	1-216-025-91	METAL GLAZE	100		1/10W
R182	1-216-049-91	METAL GLAZE	1K 10K	5% 5%	1/10W 1/10W	R322 R326	1-216-067-00				1/10W
•	- 510 013-00	MILLI GUAGE	TOW	J-70	T/ TOM	R326 R327	1-216-077-00 1-216-097-91	METAL GLAZE	15K		1/10W 1/10W
R183	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R327	1-216-037-91		100K 100		1/10W 1/10W
				-						J.0	_,,



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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	<b>V</b>	REMARK
R329 R330 R331 R332 R333	1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 220 5% 220 5% 220 5% 39K 0.50%	1/10W 1/10W 1/10W 1/10W 6 1/10W	R426 R427 R429 R430 R431	1-216-025-91 1-216-188-00 1-216-067-00 1-216-089-91 1-216-188-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 390 5% 5.6K 5% 47K 5% 390 5%	1/10W 1/8W 1/10W 1/10W 1/8W
R334 R340 R341 R342 R352	1-216-097-91 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE	390K 5% 100K 5% 27K 5% 10K 5% 1.2M 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R432 R433 R434 R435 R436	1-216-039-00 1-216-067-00 1-216-025-91 1-216-039-00 1-216-022-00	METAL GLAZE METAL GLAZE	390 5% 5.6K 5% 100 5% 390 5% 75 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R354 R355 R356 R364 R365		METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 4.7K 5% 100 5% 470 5% 120 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R437 R438 R439 R440 R441	1-216-073-00 1-216-089-91 1-216-071-00 1-216-025-91 1-216-022-00	METAL GLAZE METAL GLAZE	10K 5% 47K 5% 8.2K 5% 100 5% 75 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R366 R367 R368 R370 R371	1-216-079-91 1-216-079-91 1-216-069-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 18K 5% 6.8K 5% 220 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R442 R443 R444 R445 R446	1-216-067-00 1-216-113-00 1-216-067-00 1-216-113-00 1-216-025-91	METAL GLAZE METAL GLAZE	5.6K 5% 470K 5% 5.6K 5% 470K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R372 R373 R380 R381 R382	1-216-033-00 1-216-041-00 1-216-222-00 1-216-025-91 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 470 5% 10K 5% 100 5% 1.5K 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R447 R448 R449 R454 R458	1-216-025-91 1-216-073-00 1-216-071-00 1-216-089-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 10K 5% 8.2K 5% 47K 5% 1K 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R383 R384 R385 R386 R387	1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 1.5K 5% 1K 5% 470 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R461 R464 R465 R473 R474	1-216-022-00 1-216-034-00 1-216-025-91 1-216-022-00 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	75 5% 240 5% 100 5% 75 5% 1K 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R388 R389 R390 R392 R393	1-216-041-00 1-216-089-91 1-216-091-00	METAL GLAZE METAL GLAZE	470 5% 470 5% 47K 5% 56K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R482 R483 R484 R485 R486	1-216-073-00 1-216-029-00 1-216-025-91 1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 150 5% 100 5% 100 5% 100 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R394	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W -C2173B/C2173E)	R487 R488	1-216-022-00 1-216-022-00		75 5% 75 5%	1/1 <b>O</b> W 1/1 <b>O</b> W
R395 R399		METAL GLAZE  METAL GLAZE	1K 5% (KV 4.7K 5%	1/10W -C2173B/C2173E) 1/8W	R489 R490 R491	1-216-022-00 1-216-295-91 1-216-295-91	METAL GLAZE	75 5% 0 5% 0 5%	1/1 <b>O</b> W 1/1 <b>O</b> W 1/1 <b>O</b> W
R401 R402 R403 R404 R405	1-216-039-00 1-216-089-91 1-216-039-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	390 5% 47K 5% 390 5% 47K 5% 390 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R492 R1001 R1002 R1004 R1008	1-216-295-91 1-216-049-91 1-216-025-91 1-216-049-91 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 1K 5% 100 5% 1K 5% 33K 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R406 R407 R408 R409 R410	1-216-198-91 1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 5% 1K 5% 5.6K 5% 5.6K 5% 100 5%	1/10W 1/8W 1/10W 1/10W 1/10W	R1009 R1010 R1011 R1012 R1014	1-216-025-91 1-216-053-00 1-216-053-00 1-216-053-00 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 1.5K 5% 1.5K 5% 1.5K 5% 100 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R413 R415 R417 R419 R420	1-216-067-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 5.6K 5% 220 5% 5.6K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1015 R1016 R1025 R1026 R1027	1-216-025-91 1-216-049-91 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 1K 5% 220 5% 220 5% 220 5%	1/1 OW 1/1 OW 1/1 OW 1/1 OW 1/1 OW
R421 R422 R423 R424 R425	1-216-022-00 1-216-093-00 1-216-113-00	O METAL GLAZE	470K 5% 75 5% 68K 5% 470K 5% 75 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1029	1-216-025-91	METAL GLAZE	100 5%	1/1 <b>©</b> W



Les composants identifies par une trame et une marque 🙃 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked is are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON	REMARK		
		101-R1118 FITTED ON > KV-C2173B/C2173E >		CN703	*1-568-882-51	PIN, CONNEC	FOR 7P			
R1101 1-216-025-91 METAL GLAZE 100 5% 1/10W					< DIODE >					
R1101 R1102 R1103 R1104 R1105	1-216-049-91 1-220-149-11 1-216-085-00	METAL GLAZE 1K 5 METAL GLAZE 2.2 1	% 1/10W 0% 1/2W % 1/10W	D701 D702 D706 D707	8-719-991-33 8-719-991-33 8-719-991-33	DIODE RD9.11 DIODE 1SS13: DIODE 1SS13: DIODE 1SS13:	3T-77 3T-77 3T-77			
R1106 R1107 R1108 R1109 R1110	1-216-049-91 1-216-121-91 1-216-121-91	METAL GLAZE 1K 5' METAL GLAZE 1K 5' METAL GLAZE 1M 5' METAL GLAZE 1M 5' METAL GLAZE 10 5'	% 1/10W % 1/10W % 1/10W	D708 D709 D710 D711 D713	8-719-991-33 8-719-991-33 8-719-302-43 8-719-991-33	DIODE 1SS133	3T-77 3T-77 3T-77			
R1111 R1112 R1113 R1114 R1115	1-216-025-91 1-216-117-00 1-216-158-00 1-216-121-91	METAL GLAZE 100 55 METAL GLAZE 100 55 METAL GLAZE 680K 55 METAL GLAZE 22 55 METAL GLAZE 1M 55	% 1/10W % 1/10W % 1/8W % 1/10W	D714 D715 D716 D717 D718 D719	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133	8T-77 8T-77 8T-77 8T-77			
R1116 R1117		METAL GLAZE 22K 59 METAL GLAZE 10K 59			ر <del>۱</del> ۵۵	SOCKET >		•		
R1118			0% 1/2W	1997AA 1944			.1.2.2.7.1.2.0	· 安 · 李 · · · · · · · · · · · · · · · ·		
	< RES	SISTOR NETWORK >		INVARIA ( M.)			(63494454	pool IIIA		
RA2 RA3	1-236-908-11 1-236-908-11	RESISTOR, NETWORK (CH	IP TYPE) IP TYPE)	L704	< COI 1-408-609-41		33UH			
	< VAI	RIABLE RESISTOR >			< TRA	NSISTOR >				
RV102	1-241-765-11	RES, ADJ, CARBON 22K	(KV-C2173B)	Q702 Q703	8-729-119-78 8-729-906-70	TRANSISTOR 2 TRANSISTOR B	SC2785-HFE F871-127			
	< TUI	NER >		Q704 Q705	8-729-200-17	TRANSISTOR 2	SA1091-0			
TU101	8-598-045-00	TUNER (BTP-EC411)		Q705 Q706	8-729-119-78 8-729-906-70	TRANSISTOR 2				
	< CRY	(STAL >		Q707	8-729-200-17	TRANSISTOR 2	SA1091-0			
X2 X301 X302 X1001	1-567-505-11 1-567-504-11	VIBRATOR, CERAMIC OSCILLATOR, CRYSTAL OSCILLATOR, CRYSTAL		Q708 Q709 Q710	8-729-119-78 8-729-906-70 8-729-200-17	TRANSISTOR 2 TRANSISTOR B TRANSISTOR 2	SC2785-HFE F871-127			
X1101	1-579-689-21	OSCILLATOR, CRYSTAL VIBRATOR, CRYSTAL (KV-	C2173B/C2173E)			ISTOR >				
*****	*******	********	*****	JW701	1-247-791-91	CARBON	22 5%	1/4W		
	*A-1638-055-A	C BOARD, COMPLETE		R704 R705 R706	1-216-486-00 1-202-822-00 1-247-815-91		8.2K 5% 2.2K 10% 220 5%	3W F % 1/2W 1/4W		
	< CAF	PACITOR >		R707 R709	1-247-815-91 1-202-844-00	CARBON	220 5% 330K 10%	1/4W		
C702 C703 C708 C710 C712	1-102-824-00 1-102-115-00 1-162-114-00 1-107-652-11 1-102-115-00	CERAMIC 560PF CERAMIC 0.0047MF	5% 50V 10% 50V 2KV 20% 250V 10% 50V	R711 R712 R714 R715 R716	1-249-428-11 1-202-822-00 1-216-486-00 1-249-417-11	CARBON SOLID METAL OXIDE CARBON	8.2K 5% 2.2K 10% 8.2K 5% 1K 5% 220 5%	1/4W		
C714 C717 C718 C719 C722	1-104-660-91 1-102-114-00 1-102-114-00 1-102-114-00 1-101-880-00	CERAMIC 470PF CERAMIC 470PF CERAMIC 470PF	20% 16V 10% 50V 10% 50V 10% 50V 5% 50V	R717 R718 R720 R722 R723	1-247-815-91 1-202-814-11 1-249-428-11 1-202-848-00 1-249-417-11	SOLID CARBON SOLID	220 5% 33K 10% 8.2K 5% 680K 10% 1K 5%	1/4W		
C723 C724	1-101-880-00 1-101-880-00		5% 50V 5% 50V	R724 R726		SOLID SOLID	470K 10% 2.2K 10%			
	< CON	NECTOR >		R727 R728		METAL OXIDE	220 5% 1 5%	1/4W 1W F		
CN701 CN702	*1-508-768-00 1-695-915-11	PIN, CONNECTOR (5MM PI TAB (CONTACT)	TCH) 6P	R729 R731	1-247-815-91 1-249-428-11		220 5% 8.2K 5%	1/4W 1/4W		

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Replace only with the part number

specified.





REF.NO.	PART NO.	DESCRIPTIO	ON .		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON		REMARK
R732 R734 R736 R737	1-215-481-00 1-247-807-31 1-216-486-00 1-215-487-00	METAL CARBON METAL OXIDE METAL	330K 1% 100 5% 8.2K 5% 680K 1%	1/4W 1/4W 3W 1/4W	F	C623 C624 C625	1-126-934-91 1-136-165-00 1-126-967-91	ELECT FILM ELECT	220MF 0.1MF 47MF	20% 5% 20%	25V 50V 50V
R739 R741 R744	1-249-417-11 1-202-549-00 1-249-426-11		1K 5% 100 20% 5.6K 5%	1/4W 1/2W 1/4W		C626 C627 C628	1-126-934-91 1-124-120-11 1-126-964-11	ELECT ELECT	220MF 220MF 10MF	20% 20% 20%	25V 25V 50V
R745 R746	1-249-426-11 1-249-426-11 < VAF	CARBON CARBON RIABLE RESISTO	5.6K 5% 5.6K 5% R >	1/4W 1/4W		C629 C630 C631 C632	1-126-800-51 1-126-800-51 1-126-965-91 1-124-120-11 1-136-516-12	ELECT ELECT ELECT ELECT	2200MF 2200MF 22MF 220MF	20% 20% 20% 20%	25V 25V 50V 25V
RV701 RV702		RES, ADJ, ME RES, ADJ, ME				C634 A	1-136-516-12 1-136-516-12 1-136-516-12	PION			300V 300V
******	************** *A-1642-122-A			******	******		1-164-503-61 1-136-165-00 1-106-220-00		0.0022MF 0.1MF 0.1MF	20% 5% 10%	400V 50V 100V
		********	****		:	C647 C800	1-162-116-00 1-137-437-11	CERAMIC	680PF 0.0056MF	10% 10% 5%	2KV 50V
	4-202-373-01	SPACER, INSU SPRING, IC PACITOR >	LATING			C801 C804 C806	1-136-153-00 1-136-165-00 1-104-999-11	FILM FILM FILM MYLAR	0.0056MF 0.01MF 0.1MF 0.1MF	5% 5% 5% 10%	50V 50V 50V 200V
C502	1-102-824-00	CERAMIC	470PF	5%	50V	C807	1-136-111-00	FILM	1MF	5%	200V
C503 C504 C506 C507	1-136-165-00 1-102-824-00 1-124-480-11 1-109-953-11	FILM CERAMIC ELECT ELECT	0.1MF 470PF 470MF 2.2MF	5% 5% 20% 20%	50V 50V 25V 50V	C810 C811 C812 C813	1-126-772-11 1-102-212-00 1-136-111-00 1-136-759-11	ELECT CERAMIC FILM FILM	1MF 820PF 1MF 0.039MF	20% 10% 5% 10%	250V 500V 200V 630V
C509 C510 C511 C513 C514	1-136-165-00 1-126-969-11 1-136-202-11 1-106-220-00 1-136-165-00	FILM ELECT FILM MYLAR FILM	0.1MF 220MF 0.33MF 0.1MF 0.1MF	5% 20% 5% 10% 5%	50V 50V 63V 100V 50V	C814 C815 C816 C817 C818	1-136-549-11 1-136-562-11 1-161-754-00 1-161-754-00 1-162-134-11		0.0106MF 0.0082MF 0.001MF 0.001MF 470PF	3% 10% 10% 10% 10%	1.4KV 400V 2KV 2KV 2KV
C515 C517 C518 C519 C520	1-124-480-11 1-124-480-11 1-102-228-00 1-102-228-00 1-124-480-11		470MF 470MF 470PF 470PF 470MF	20% 20% 10% 10% 20%	25V 25V 500V 500V 25V	C819 C820 C821 C822 C824	1-136-208-11 1-102-114-00 1-162-114-00 1-107-662-11 1-123-024-21	FILM CERAMIC CERAMIC ELECT ELECT	0.068MF 470PF 0.0047MF 22MF 33MF	10% 10% 20%	250V 50V 2KV 250V 160V
C521 C522 C523 C600 A C601 A	1-124-006-11 1-126-964-11 1-136-165-00 1-164-503-61 1-161-964-91	FILM CERAMIC	10MF 10MF 0.1MF 0.0022MF 0.0047MF	20% 20% 5% 2 <b>0%</b>	25V 50V 50V 400V 250V	C829 C830 C832 C834 C835	1-126-959-00 1-124-903-11 1-126-959-00 1-104-662-91 1-162-318-11		0.47MF 1MF 0.47MF 22MF 0.001MF	20% 20% 20% 20% 10%	50V 50V 50V 25V 500V
C602 C603 C604 C605 C606	1-161-964-91 1-125-318-00 1-126-968-91 1-124-667-11 1-162-318-11	ELECT (BLOCK) ELECT ELECT	0.0047MF 220MF 100MF 10MF 0.001MF	20% 20% 20% 20% 10%	250V 400V 50V 100V 500V	C836 C838 C906 C908 C909	1-162-117-00 1-102-228-00 1-126-967-91 1-126-967-91 1-124-903-11	ELECT ELECT	100PF 470PF 47MF 47MF 1MF	10% 10% 20% 20% 20%	500V 500V 50V 50V 50V
C607 C608 C611 C612 C613	1-124-120-11 1-109-880-11 1-102-228-00 1-104-799-11 1-124-347-00	FILM CERAMIC ELECT	220MF 0.0015MF 470PF 22MF 100MF	20% 3% 10% 20% 20%	25V 2KV 500V 100V 160V	C910 C1200 C1201 C1202 C1203	1-137-393-11 1-136-165-00 1-136-165-00 1-136-165-00 1-136-169-00	FILM FILM FILM	0.01MF 0.1MF 0.1MF 0.1MF 0.22MF	5% 5% 5% 5% 5%	100V 50V 50V 50V 50V
C614 C615 C616 C617 C618	1-128-526-11 1-111-063-11 1-111-067-11 1-126-183-11 1-136-165-00	ELECT ELECT ELECT	100MF 470MF 0.001F 1000MF 0.1MF	20% 20% 20% 20% 5%	25V 25V 25V 16V 50V	C1204 C1205 C1206 C1207 C1208	1-136-169-00 1-101-005-00 1-101-005-00 1-124-665-11 1-126-963-11	CERAMIC CERAMIC ELECT	0.22MF 0.022MF 0.022MF 100MF 4.7MF	5% 20% 20%	50V 50V 50V 25V 50V
C619 C620 C621 C622	1-102-228-00 1-102-228-00 1-136-165-00 1-104-797-11	CERAMIC FILM	470PF 470PF 0.1MF 0.47MF	10% 10% 5% 20%	500V 500V 50V 100V	C1209 C1210 C1211 C1214	1-126-963-11 1-124-961-11 1-124-961-11 1-104-665-11	ELECT ELECT	4.7MF 2.2MF 2.2MF 100MF	20% 20% 20% 20%	50V 50V 50V 25V



Les composants identifies par une trame et une marque  $\hat{\mathcal{A}}_{\lambda}$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked A are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1215 C1216 C1217 C1218	1-136-173-00 1-137-366-11 1-137-366-11 1-124-934-91	FILM 0.0022MF FILM 0.0022MF ELECT 220MF	5% 5% 5% 20%	50V 50V 50V 25V	D903 D904 D905 D906 D1201	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE RD3.9ESB2	
w00123337712		NNECTOR >				< FEF	RRITE BEAD >	
CN600 A CN601 A CN602 A CN800 CN803	*1-695-292-11 *1-580-798-11	PIN, CONNECTOR (5MM PI PIN, CONNECTOR (5MM PI PIN, CONNECTOR (POWER) CONNECTOR PIN (DY) 6P TAB (CONTACT)	TCR) 2P TCR) 3P		FB600 FB601 FB602 FB604	1-410-397-21 1-410-397-21 1-410-397-21 1-410-396-41	FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 1.1 FERRITE BEAD INDUCTOR 0.4	ЈН ЈН 5UH
CN804 CN901 CN902 CN903 CN904	*1-508-768-00 *1-564-520-11 1-695-299-11 *1-564-516-11 *1-564-509-11	PIN, CONNECTOR (5MM PI PLUG, CONNECTOR 5P CONNECTOR, BOARD TO BO. PLUG, CONNECTOR 13P PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P PIN, CONNECTOR 4P	TCH) 6P ARD 50P		FB605 FB606 FB607	1-410-397-21	FERRITE BEAD INDUCTOR 0.4  FERRITE BEAD INDUCTOR 1.1  FERRITE BEAD INDUCTOR 1.1	JH
CN905 CN1200	*1-564-506-11 *1-568-879-11	PLUG, CONNECTOR 3P PIN, CONNECTOR 4P			IC500 IC600 IC601	8-759-192-71 8-749-010-84 8-749-924-92 8-749-920-61	IC STR-S6708 IC TLP/21(D4)-GR	
D500	9_710_100_06	DIODE RD5.1ESB2			IC602	8-759-144-82	IC µPC2405HF	
D502 D503 D504 D505	8-719-979-85 8-719-979-85 8-719-991-33	DIODE EGP20G DIODE EGP20G DIODE 1SS133T-77 DIODE MTZJ-3.6A			IC604 IC605 IC606 IC800 IC1200	8-759-231-58	IC LM2940CT-9.0 IC μPC393C	
D506 D507 D600 D601	8-719-109-85 8-719-510-53	DIODE 1SS133T-77 DIODE RD5.1ESB2 DIODE D4SB60L DIODE EM1-V1			IC1201	8-759-502-21	IC TDA2822M	
D603	8-719-109-97	DIODE RD6.8ESB2				< COI		
D604 D605 D606 D607 D608	8-719-312-61 8-719-312-61 8-719-046-78	DIODE E0-1Z			L502 L503 L609 L611 L612		INDUCTOR 3.3UH INDUCTOR 47UH INDUCTOR 15UH INDUCTOR, WIDE BAND	
D609 D610 D611 D612 D613	8-719-302-43 8-719-046-76	DIODE AU-01Z-V1			L613 L801 L803 L804 L805	1-459-111-00 1-420-872-00 1-459-652-12	INDUCTOR, WIDE BAND COIL, DRAM CORE (CDI) COIL, AIR CORE COIL, HORIZONTAL LINEARITY COIL, CHOKE 4.7MMH	
D614	8-719-045-48	DIODE FML-G12S			L809	1-412-533-21	INDUCTOR 47UH	
D615 D616	8-719-046-75 8-719-110-03	DIODE EU-1-V1 DIODE RD7.5ESB2				< TRAI	NSFORMER >	
D617 D618	8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77			LF600 A	1-421-776-21 1-421-776-21	LPT LPT	$\mathcal{J}_{i}:$
D619 D620 D622	8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE MTZJ-T-77-9.1A			PS600 A	< IC I	LINK > LINK, IC 2.VA (ICP-P75)	
D625 D626	8-719-046-74	DIODE 1SS133T-77 DIODE AU-01Z-V1			PS601 A PS602 A	1-532-686 <b>-</b> 91 1-532-686 <b>-</b> 91	LINK, IC 2.7A (ICP-F75) LINK, IC 2.7A (ICP-F75) LINK, IC 2.7A (ICP-F75)	
D800 D801 D802	8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77			PS801 A	1-532-605-91	LINE, IC 0.4A (ICP-F10)	
D803 D807	8-719-908-03 8-719-302-43	DIODE GP08D			0501		SISTOR >	
D809 D810 D812 D817 D902	8-719-018-82 8-719-302-43 8-719-038-49 8-719-109-89	DIODE RGP02-20EL-6394 DIODE EL1Z DIODE FMS-3FU-LF027-103 DIODE RD5.6ESB2		İ	Q501 Q502 Q503 Q601 Q602	8-729-173-38 8-729-900-89 8-729-025-04 8-729-320-28	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA733-K TRANSISTOR DTC144ES TRANSISTOR 2SC3852A TRANSISTOR 2SA1667	
	0-113-372-00	DIODE MTZJ-T-77-9.1A			Q603 Q604	8-729-027-08 8-729-024-35	TRANSISTOR 2SC2389STP-R TRANSISTOR 2SC2808STP-R	

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Replace only with the part number specified.



REF.NO.	PART NO.	DESCRIPTION		ı	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
Q605 Q606 Q607	8-729-119-78 8-729-900-65 8-729-119-78	TRANSISTOR 2SC27 TRANSISTOR DTA14 TRANSISTOR 2SC27	44ES			R630 🛧	1-249-415-11 1-244-945-91 1-218-265-21 1-205-949-11	Carbon Netal	680 1M 8.2M 1.8	5%	1/4W 1/2W 1W 10W	
Q800 Q801 Q802 Q803 Q805	8-729-119-78 8-729-017-06 8-729-016-32 8-729-119-80 8-729-900-89	TRANSISTOR 2SC47 TRANSISTOR 2SC47 TRANSISTOR 2SC49 TRANSISTOR 2SC26 TRANSISTOR DTC14	793 927-01 688-LK			R632 R633 R634 R635 R636	1-247-807-31 1-247-807-31 1-249-397-11 1-249-437-11 1-249-417-11	CARBON CARBON CARBON CARBON	100 100 22 47K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F
Q1200 Q1201 Q1202 Q1203 Q1204	8-729-119-78 8-729-900-74 8-729-900-80 8-729-900-74 8-729-900-74	TRANSISTOR 2SC27 TRANSISTOR DTC12 TRANSISTOR DTC12 TRANSISTOR DTC14 TRANSISTOR DTC14	43TS 14ES 43TS			R637 R638 R639 R640	1-247-815-91 1-247-863-91 1-215-431-00 1-216-381-11	CARBON CARBON METAL METAL OXIDE	1K 220 22K 2.7K 0.22	5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 3W	F
	< RES	SISTOR >				R641 R642	1-216-381-11 1-205-949-11	METAL OXIDE WIREWOUND	0.22 1.8	5% 5%	3W 10W	F
R500 R502 R503 R504 R505	1-215-457-00 1-249-421-11 1-249-429-11 1-215-443-00 1-249-382-11	CARBON 2. CARBON 10 METAL 8.	3K 1% .2K 5% 0K 5% .2K 1% .2 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	R644 R645 R646 R647 R648	1-247-807-31 1-249-422-11 1-249-377-11 1-202-933-61 1-216-397-11	CARBON CARBON FUSIBLE	100 2.7K 0.47 0.1 4.7	5% 5% 5% 10% 5%	1/4W 1/4W 1/4W 1/2W 3W	
R506 R507 R508 R509 R510	1-215-459-00 1-215-888-00 1-216-372-00 1-249-443-11 1-249-443-11	METAL OXIDE 22 METAL OXIDE 1 CARBON 0	.8K 1% 20 5% .8 5% .47 5% .47 5%	1/4W 2W 2W 1/4W 1/4W		R800 R801 R802 R803 R804	1-249-421-11 1-249-429-11 1-249-431-11 1-249-426-11 1-249-430-11	CARBON CARBON CARBON	2.2K 10K 15K 5.6K 12K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R517 R518 R520 R521 R522	1-215-427-00 1-215-427-00 1-215-457-00 1-215-457-00 1-247-863-91	METAL         1           METAL         3           METAL         3	.8K 1% .8K 1% 3K 1% 3K 1% 2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R805 R809 R812 R813 R814	1-249-425-11 1-247-901-11 1-249-421-11 1-215-869-11 1-249-411-11	CARBON CARBON METAL OXIDE	4.7K 820K 2.2K 1K 330	5% 5% 5% 5%	1/4W 1/4W 1/4W 1W 1/4W	F
R523 R524 R525 R526 R527	1-247-863-91 1-249-425-11 1-249-425-11 1-249-421-11 1-215-449-00	CARBON 4 CARBON 4 CARBON 2	2K 5% .7K 5% .7K 5% .2K 5% 5K 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R816 R817 R819 R820 R821	1-215-919-00 1-215-919-00 1-216-347-11 1-249-403-11 1-216-474-11	METAL OXIDE METAL OXIDE CARBON	2.2K 2.2K 0.68 68 82	5% 5% 5% 5%	3W 3W 1W 1/4W 3W	F F F
R529 R600 R601 R603 R604	1-249-417-11	METAL OXIDE 3: CARBON 1: METAL OXIDE 1:	70K 5% 9K 5% K 5% 0K 5% .8K 5%	1/4W 3W 1/4W 1W 1/4W	F F	R822 R824 R826 R827 R828	1-215-868-00 1-249-420-11 1-247-752-11 1-249-425-11 1-249-436-11	CARBON CARBON CARBON	680 1.8K 1K 4.7K 39K	5% 5%	1W 1/4W 1/2W 1/4W 1/4W	F
R605 R607 R608 R610 R611	1-216-421-11 1-216-365-00 1-215-419-00	METAL OXIDE 1: METAL OXIDE 0 METAL 8:	2.27 5% 2 5% 2.47 5% 20 1% 2 5%	2W 1W 2W 1/4W 1W	F F F	R829 R830 R833 R836 R837	1-249-493-11 1-217-778-11 1-249-421-11 1-249-439-11 1-249-432-11	FUSIBLE CARBON CARBON	56K 1K 2.2K 68K 18K	5% 5% 5% 5%	1/2NT 1W 1/4NT 1/4NT 1/4NT	F F
R612 R613 R614 R615 R616	1-249-428-11 1-249-417-11 1-215-877-11 1-249-435-11 1-215-479-00	CARBON 1: METAL OXIDE 2 CARBON 3	.2K 5% K 5% 2K 5% 3K 5% 70K 1%	1/4W 1/4W 1W 1/4W 1/4W	F	R840 R841 R842 R843 R846	1-247-807-31 1-249-418-11 1-247-891-00 1-247-883-00 1-249-441-11	CARBON CARBON CARBON	100 1.2K 330 150K 100K	5% 5% 5%	1/4V 1/4V 1/4V 1/4V 1/4V	
R617 R618 R619 R620 R621	1-247-863-91 1-216-425-11 1-247-895-00	CARBON 2 METAL OXIDE 5 CARBON 4	3K 5% 2K 5% 66 5% 70K 5%	2W 1/4W 1W 1/4W 1W	F F	R847 R848 R849 R850 R851	1-247-887-00 1-247-887-00 1-249-429-11 1-249-425-11 1-215-898-11	CARBON CARBON CARBON	220K 220K 10K 4.7K 10K	5%	1/4V 1/4V 1/4V 1/4V 2W	F
R622 R623 R624 R625 R626	1-249-437-11 1-249-429-11 1-249-405-11 1-249-434-11 1-249-430-11	CARBON 1 CARBON 1 CARBON 2	.7K 5% .0K 5% .00 5% .7K 5% .2K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	R852 R901 R902 R907 R916	1-249-432-11 1-247-734-11 1-247-734-11 1-247-804-11 1-247-791-91	CARBON CARBON CARBON	18K 39 39 75 22	5% 5% 5% 5% 5%	1/47 1/27 1/27 1/47 1/47	

REF.NO. PART NO. DESCRIPTION REMARK R917 1-247-791-91 CARBON 22 5% 1/4W R1200 1-249-425-11 CARBON 4.7K 5% 1/4W 1-249-434-11 R1201 CARBON 5% 27K 1/4W 1-249-393-11 R1202 CARBON 10 5% 1/4W R1203 1-249-421-11 CARBON 2.2K 5% 1/4W R1204 1-249-421-11 CARBON 2.2K 5% 1/4W R1205 1-249-428-11 CARBON 8.2K 5% 1/4W R1206 1-249-428-11 CARBON 8.2K 5% 1/4W R1208 1-212-849-00 FUSIBLE 4.7 5% 1/4W R1209 1-212-849-00 FUSIBLE 5% 4.7 1/4W R1211 1-249-424-11 CARBON 3.9K 5% 1/4W R1212 1-249-424-11 CARBON 3.9K 5% 1/4W R1213 1-249-421-11 CARBON 2.2K 5% 1/4W R1216 1-249-413-11 5% CARBON 470 1/4W R1217 1-249-425-11 CARBON 4.7K 5% 1/4W < VARIABLE RESISTOR > RV301 1-238-552-11 RES, ADJ, CARBON 470K < RELAY > RY600: /k 1-755-018-11 RELAY < SPARK GAP > SG801 1-519-422-11 GAP, SPARK < TRANSFORMER > T601 1 1-426-805-12 SRT T800 1-459-390-00 COIL (WITH CORE) T803 1 1-453-169-11 TRANSPORMER ASSY, FLYBACK (UX-1604A2) T804 1-437-090-00 HDT < THERMISTOR > THE 600 1-809-827-11 THERMISTOR, POSITIVE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*A-1646-092-A H1 BOARD, COMPLETE < CAPACITOR > C900 1-101-810-00 CERAMIC 100PF 500V C901 1-101-810-00 CERAMIC 100PF 5% 500V C902 1-137-372-11 FILM 0.022MF 5% 50V C903 1-137-372-11 FILM 0.022MF 5% 50V C907 1-124-903-11 ELECT 1MF 50V < CONNECTOR > CN900 1-568-678-11 TERMINAL BLOCK, S 3P CN906 \*1-564-516-11 PLUG, CONNECTOR 13P < JACK > J900 1-764-606-11 JACK < COIL > L900 1-408-409-00 INDUCTOR 10UH L901 1-408-409-00 INDUCTOR 10UH L902 1-408-409-00 INDUCTOR 10UH L903 1-408-409-00 INDUCTOR 10UH

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Replace only with the part number specified.

REF.NO.	PART NO.	DES	SCRIPTION			REMARK				
< RESISTOR >										
R905 R906 R909 R910 R915	1-247-804-11 1-247-804-11 1-249-437-11 1-249-437-11 1-247-791-91	CARBON CARBON CARBON	75 47K 47K	5% 5% 5%	1/4W 1/4W					
*****	******	******	******	****	******	******				
	*A-1646-070-A		RD, COMPLETE							
	< CAI	PACITOR	>							
C904 C905	1-124-910-11 1-124-907-11		47MF 10MF		20% 20%	50V 50V				
	< COM	NECTOR :	>							
CN907	*1-564-509-11	PLUG,	CONNECTOR 6P							
	< DIO	DDE >								
D901	8-719-030-11	DIODE S	SLA-570KT3F							
	< IC	>								
IC900	8-741-790-11	IC SBX	1790-11							
	< RES	SISTOR >								
R900 R908	1-247-815-91 1-249-401-11			5% 5%	-,					
******	******	******	********	*****	*****	******				
	*A-1646-093-A	H3 BOAF	RD, COMPLETE							
	< CON	NECTOR >	•							
CN908	*1-564-506-11	PLUG, C	CONNECTOR 3P							
	< RES	ISTOR >								
R911 R912 R913 R914	1-249-423-11 1-249-429-11 1-249-423-11 1-249-429-11	CARBON	3.3K 10K 3.3K 10K	5%	1/4W 1/4W 1/4W 1/4W					
	< SWI	TCH >								
S900 S901 S902	1-692-979-11 1-692-979-11 1-692-979-11	SWITCH,	TACTILE TACTILE TACTILE							
*****	******	******	******	*****	******	*****				
				,						

REMARK

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The components identified by shading and marked  $\hat{x}$  are critical for safety. Replace only with the part number specified.

PART NO.

REF.NO.

DESCRIPTION

REF.NO. PART NO. DESCRIPTION REMARK MISCELLANEOUS \*\*\*\*\*\*\*\*\* 1-452-032-00 MAGNET, DISK; 10MM Ø 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø 1-452-277-00 MAGNET, BMC 1-544-525-11 SPEAKER

1-571-433-21 SWITCH, PUSH (AC POWER)

1-690-270-21 CORD, POWER (WITH CONNECTOR) 2.5A/250V

(KV-C21773B/C21773E/C2171K/C2171KR)

1-765-286-11 CORD, POWER (WITH NOISE FILTER)

2.5A/250V (KV-C2171D) 8-598-045-00 TUNER (BTP-EC411)

8-451-295-43 DEPLECTION YOKE (Y21PFA2)

901 5 8-738-783-05 PICTURE TUBE (SD-1691 (A51JXH61X) ACCESSORIES AND PACKING MATERIALS \* \*4-033-049-01 CUSHION (LOWER) (ASSY) \*4-033-050-01 CUSHION (UPPER) (ASSY) \*4-033-051-01 INDIVIDUAL CARTON \*4-039-905-02 BAG, PROTECTION (KV-C2173B/C2171D/C2173E/C2171K) \*4-042-476-01 BAG, PROTECTION (KV-C2171KR) 4-203-171-51 MANUAL, INSTRUCTION (KV-C2173B) (FRENCH/GERMAN/ITALIAN) 4-203-171-11 MANUAL, INSTRUCTION (KV-C2171D) (GERMAN/ENGLISH/NORWEGIAN) 4-203-171-71 MANUAL, INSTRUCTION (KV-C2173E) 4-203-171-91 MANUAL, INSTRUCTION (KV-C2171K) (ENGLISH/CZECH/POLISH) 4-203-223-91 MANUAL, INSTRUCTION (KV-C2171KR) (ENGLISH/RUSSIAN/BULGARIAN) REMOTE COMMANDER 1-467-706-11 COMMANDER, STANDARD TYPE (RM-833)

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